

1895

1924

CITY OF NEW YORK

New York Zoological Society

Founded in 1895 for the establishment of the Zoological Park; conservation of the animal life of the world--fishes, mammals, birds; promotion of zoology through exploration and publication; and, in 1900, the direction of the New York Aquarium in Battery Park



TWENTY-NINTH ANNUAL REPORT

Address: *Director*, Wm. T. Hornaday, Zoological Society at the Zoological Park, 185th Street and Southern Boulevard; *Director*, Charles H. Townsend, Aquarium, Battery Park; *Secretary* of the Society at the Society's office, 101 Park Avenue.

PUBLISHED AT THE OFFICE OF THE SOCIETY, 101 PARK AVENUE

JANUARY, 1925

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TWENTY-NINTH ANNUAL REPORT

OF THE

New York Zoological Society



MRS. RUSSELL SAGE
1828-1918

1895

1924

CITY OF NEW YORK

New York Zoological Society

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JANUARY, 1925

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THE NEW YORK ZOOLOGICAL SOCIETY

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NEW YORK

TWENTY-NINTH ANNUAL REPORT

Contents

NEW YORK ZOOLOGICAL SOCIETY	ix
Form of Bequest	
ADMINISTRATIVE OFFICERS	x
Board of Managers	
Officers of the Society	
Committees of the Society	
Executive Staff	
REPORT OF THE EXECUTIVE COMMITTEE	17
Madison Grant, Chairman	
REPORT OF THE LADIES' AUXILIARY	33
Mrs. H. Fairfield Osborn, Chairman	
THE ZOOLOGICAL PARK: REPORT OF THE DIRECTOR	37
Department of Mammals	
Department of Birds	
Department of Reptiles	
Report of the Veterinarian	
Department of Administration	
Department of Forestry and Construction	
Department of Photography and Publication	
THE AQUARIUM: REPORT OF THE DIRECTOR	73
C. H. Townsend	
A TABLE OF INFORMATION: AQUARIUMS OF THE WORLD	83
Ida M. Mellen	
DEPARTMENT OF TROPICAL RESEARCH:	
REPORT OF THE DIRECTOR	87
REPORT OF THE PENSION BOARD	93

(Contents continued)

FINANCES	97
Financial Summary	
Summary of Expenditures—1896-1924	
Summary of Expenditures—1924	
Funds by various City Administrations	
TREASURER'S REPORTS	99
Securities	
Auditors' Certificate	
Audit Committee's Report	
ENDOWMENT SUBSCRIPTIONS	117
SPECIAL FUNDS	119
ACCESSIONS	121
Zoological Park	
Aquarium	
SUMMARY OF MEMBERSHIP	134
MEMBERS OF THE SOCIETY	135
Benefactors	
Founders in Perpetuity	
Founders	
Associate Founders	
Patrons	
Life Members	
Sustaining Members	
Annual Members	
Ladies' Auxiliary	
Honorary Members	
Fellows	
Corresponding Members	
DOCUMENTS	165
Incorporation	
Grant of South Bronx Park	
By-Laws	
PUBLICATIONS	179
INDEX	185

Illustrations

MRS. RUSSELL SAGE	. . . . .	<i>Frontispiece</i>
NUBIAN GIRAFFES	. . . . .	16
MOUNTAIN ZEBRA COLT	. . . . .	22
TRUMPETER SWANS	. . . . .	32
PYGMY HIPPOPOTAMUS	. . . . .	36
AFRICAN BUSH PIG	. . . . .	40
RED BUSH PIG	. . . . .	41
ARGUS PHEASANT	. . . . .	44
MEXICAN BEADED LIZARD	. . . . .	48
GILA MONSTER	. . . . .	48
WHITE-LIPPED PECCARY	. . . . .	52
AMERICAN EGRET	. . . . .	56
BAIRD TAPIR	. . . . .	58
LECHWE WATERBUCK	. . . . .	64
COCOI HERONS	. . . . .	68
NEW YORK AQUARIUM	. . . . .	72
NEW YORK AQUARIUM: ENTRANCE	. . . . .	78
SINGER MIDGETS	. . . . .	92
EUROPEAN WHITE PELICAN	. . . . .	96
AARD VARK	. . . . .	120

New York Zoological Society

Form of Bequest

I do hereby give and bequeath to the "NEW YORK ZOOLOGICAL SOCIETY," of the City of New York,.....
.....
.....

Membership

Membership.—Membership in the Zoological Society is open to all who are interested in the objects of the organization and desire to contribute toward its support.

Classes.—Annual Membership is \$10. This entitles the holder to admission to the Zoological Park on pay days, when the collections may be seen to the best advantage, all publications of the Society, privileges of the Administration Building, lectures, special exhibitions, and ten complimentary tickets to the Zoological Park for distribution.

Annual Members may become Life Members by the payment of \$200; a subscriber of \$1,000 becomes a Patron; \$2,500, an Associate Founder; \$5,000, a Founder; \$10,000, a Founder in Perpetuity, and \$25,000 a Benefactor.

Address the SECRETARY OF THE ZOOLOGICAL SOCIETY,
101 Park Avenue, New York City.

New York Zoological Society

Organized 1895

Presidents

I.	ANDREW H. GREEN.....	1895 to 1897
II.	LEVI P. MORTON.....	1897 to 1909
III.	HENRY FAIRFIELD OSBORN.....	1909 to 1925
IV.	MADISON GRANT.....	1925

First Vice-Presidents

I.	J. HAMPTON ROBB.....	1895 to 1897
II.	HENRY FAIRFIELD OSBORN.....	1897 to 1909
III.	SAMUEL THORNE.....	1909 to 1916
IV.	MADISON GRANT.....	1916 to 1925
V.	FRANK K. STURGIS.....	1925

Second Vice-Presidents

I.	CHARLES H. WHITEHEAD.....	1895 to 1902
II.	JOHN L. CADWALADER.....	1902 to 1915
III.	MADISON GRANT.....	1915 to 1916
IV.	FRANK K. STURGIS.....	1916 to 1925
V.	HENRY D. WHITON.....	1925

Treasurers

I.	L. V. F. RANDOLPH.....	1895 to 1901
II.	CHARLES T. BARNEY.....	1901 to 1903
III.	PERCY RIVINGTON PYNE.....	1903 to 1922
IV.	CORNELIUS R. AGNEW.....	1922

Secretaries

I.	MADISON GRANT.....	1895 to 1925
II.	WILLIAM WHITE NILES.....	1925

Chairmen, Executive Committee

I.	CHARLES E. WHITEHEAD.....	1895 to 1896
II.	HENRY FAIRFIELD OSBORN.....	1896 to 1903
III.	CHARLES T. BARNEY.....	1903 to 1908
IV.	HENRY FAIRFIELD OSBORN.....	1908 to 1909
V.	MADISON GRANT.....	1909

Directors

I.	WILLIAM T. HORNADAY, <i>Zoological Park</i>	1896
II.	CHARLES H. TOWNSEND, <i>New York Aquarium</i>	1902

Board of Managers

Ex-officio: { THE MAYOR, *of the City of New York.*
THE PRESIDENT, *Dep't of Parks, City of New York.*

CLASS OF 1926

HENRY FAIRFIELD OSBORN,	EDWARD S. HARKNESS,
LISPENARD STEWART,	WILLIAM B. OSGOOD FIELD,
CHARLES F. DIETERICH,	EDWIN THORNE,
GEORGE F. BAKER,	PERCY A. ROCKEFELLER,
WM. PIERSON HAMILTON,	JOHN E. BERWIND,
ROBERT S. BREWSTER,	IRVING K. TAYLOR.

CLASS OF 1927

MADISON GRANT,	GEORGE D. PRATT,
WILLIAM WHITE NILES,	T. COLEMAN DU PONT,
FRANK K. STURGIS,	HENRY D. WHITON,
OGDEN MILLS,	CORNELIUS R. AGNEW,
LEWIS RUTHERFURD MORRIS,	HARRISON WILLIAMS,
ARCHER M. HUNTINGTON,	MARSHALL FIELD.

CLASS OF 1928

PERCY R. PYNE,	GEORGE C. CLARK, JR.,
GEORGE BIRD GRINNELL,	W. REDMOND CROSS,
CLEVELAND H. DODGE,	HENRY FAIRFIELD OSBORN, JR.,
ANTHONY R. KUSER,	ARTHUR A. FOWLER,
MORTIMER L. SCHIFF,	GEORGE GORDON BATTLE,
FREDERIC C. WALCOTT,	BAYARD DOMINICK.

Officers of the Society

President: MADISON GRANT,

First Vice-President:

FRANK K. STURGIS,

Second Vice-President:

HENRY D. WHITON,

Acting Secretary: WILLIAM WHITE NILES,

Treasurer: CORNELIUS R. AGNEW, 16 William Street,

Assistant Treasurer: THE FARMERS' LOAN & TRUST COMPANY.

Executive Committee

MADISON GRANT, *Chairman*

PERCY R. PYNE,

HARRISON WILLIAMS,

WILLIAM WHITE NILES,

HENRY D. WHITON,

FRANK K. STURGIS,

GEORGE D. PRATT,

ANTHONY R. KUSER,

HENRY FAIRFIELD OSBORN, JR.,

CORNELIUS R. AGNEW, *Ex-Officio*.

General Officers

WILLIAM T. HORNADAY, *Director, Zoological Park,*

W. REID BLAIR, *Assistant Director,*

CHARLES H. TOWNSEND, *Director, New York Aquarium,*

GEORGE S. HUNTINGTON, *Prosector,*

H. C. RAVEN, *Associate Prosector,*

H. DE B. PARSONS, *Consulting Engineer,*

R. L. CERERO, *Bursar*.

Pension Board

LEWIS RUTHERFURD MORRIS, *Chairman*

CORNELIUS R. AGNEW, *Treasurer,*

HERMANN W. MERKEL, *Secretary,*

WM. B. OSGOOD FIELD,

GEORGE BIRD GRINNELL,

H. R. MITCHELL,

W. REDMOND CROSS,

W. REID BLAIR,

CHARLES H. TOWNSEND.

Committees of the Society

Finance Committee

FRANK K. STURGIS, *Chairman*.

GEORGE C. CLARK, JR.,

PERCY R. PYNE,

CORNELIUS R. AGNEW, *Ex-Officio*.

Auditing Committee

WILLIAM WHITE NILES, *Chairman*.

GEORGE C. CLARK, JR.,

W. REDMOND CROSS,

MADISON GRANT, *Ex-Officio*.

Art Committee

FRANK K. STURGIS.

Aquarium Alteration Committee

FRANK K. STURGIS, *Chairman*.

HENRY D. WHITON,

CHARLES H. TOWNSEND,

MADISON GRANT, *Ex-Officio*.

Aquarium Committee

CHARLES H. TOWNSEND, *Chairman*.

CHARLES L. BRISTOL,

JOHN T. NICHOLS,

BASHFORD DEAN,

G. K. NOBLE,

E. W. GUDGER.

Editorial Committee

MADISON GRANT, *Chairman*.

WILLIAM T. HORNADAY,

CHARLES H. TOWNSEND,

WILLIAM BEEBE,

ELWIN R. SANBORN, *Secretary*.

Nominating Committee for Officers and Committees

LEWIS RUTHERFURD MORRIS, *Chairman.*

GEORGE C. CLARK, JR.,

GEORGE BIRD GRINNELL.

Nominating Committee for Board of Managers

CHARLES DE RHAM, *Chairman.*

H. DE B. PARSONS,

CHARLES A. DANA.

Endowment Committee

HENRY D. WHITON, *Chairman.*

ODGEN MILLS,

ARTHUR A. FOWLER,

HENRY FAIRFIELD OSBORN, JR.

MORTIMER L. SCHIFF,

BAYARD DOMINICK,

IRVING K. TAYLOR.

Membership Committee

HENRY FAIRFIELD OSBORN, JR., *Chairman.*

F. TRUBEE DAVISON,

ARTHUR A. FOWLER,

GEORGE PALMER PUTNAM.

Arcturus Expedition Committee

HENRY D. WHITON, *Chairman*

HARRISON WILLIAMS,

WILLIAM BEEBE,

HENRY FAIRFIELD OSBORN, JR.,

DR. W. K. GREGORY,

GEORGE PALMER PUTNAM.

Publicity Committee

RAYMOND L. DITMARS, *Chairman.*

W. REID BLAIR,

CHARLES H. TOWNSEND,

WILLIAM T. HORNADAY,

GEORGE PALMER PUTNAM,

ELWIN R. SANBORN.

Committee on Zoological Education in Schools

GEORGE D. PRATT, *Chairman.*

MORTIMER L. SCHIFF,

HENRY FAIRFIELD OSBORN, JR.,

GEORGE PALMER PUTNAM.

Executive Staff

Officers of the Zoological Park

WILLIAM T. HORNADAY, *Director and General Curator*,
W. REID BLAIR, *Assistant Director*,
H. R. MITCHELL, *Chief Clerk*,
RAYMOND L. DITMARS, *Curator of Reptiles*,
LEE S. CRANDALL, *Curator of Birds*,
WILLIAM BEEBE, *Honorary Curator of Birds*,
HERMANN W. MERKEL, *Chief Forester and Constructor*,
WILLIAM MITCHELL, *Cashier*,
ELWIN R. SANBORN, *Asst. to Secy. and Editor*.

Officers of the Aquarium

CHARLES H. TOWNSEND, *Director*,
IDA M. MELLEN, *Aquarist and Secretary*,
LOUIS L. MOWBRAY, *Chief Aquarist*,
CHARLES M. BREDER, JR., *Assistant Aquarist*,
JAMES C. MOORE, *Chief Engineer*,
MARVIN C. FENSTEMAKER, *Clerk*.

Officers of the Department of Tropical Research

WILLIAM BEEBE, *Director*,
W. K. GREGORY, *Associate in Vertebrates*,
L. SEGAL, *Associate in Special Problems*,
C. J. FISH, *Associate in Diatoms and Crustacea*,
JOHN TEE-VAN, *Assistant in Photography and Zoology*,
E. B. SHOEDSACK, *Assistant in Cinematography*,
WM. H. MERRIAM, *Assistant in Field Work*,
ISABEL COOPER, *Scientific Artist*,
RUTH ROSE, *Historian and Technician*,
M. D. FISH, *Assistant in Larval Fish Distribution*,
DWIGHT FRANKLIN, *Assistant in Fish Preparation*,
JAY F. W. PEARSON, *Assistant in Macroplankton*,
SERGE CHETYRKIN, *Preparateur*,
D. W. CADY, *Surgeon*.



NUBIAN GIRAFFES

The young animal was born in the Zoological Park July 17, 1924. The mother is owned by the Ringling Brothers-Barnum & Bailey Circus.

REPORT OF THE EXECUTIVE COMMITTEE

By MADISON GRANT, *Chairman*

THE Executive Committee respectfully submits the following report for the year 1924:

During the year there have fortunately been no deaths or changes in the Board of Managers or committees elected at the beginning of the year.

The chief concern of your Executive Committee remains the question of Endowment, in which there was no substantial increase during the year, although your Committee obtained several promises of donations conditioned upon a specified sum being raised within a limited time. This form of donation, however, has not proved to be of substantial assistance because of the difficulty of complying with the conditions. In view of the very large endowments obtained by sister institutions of New York through bequests and donations, your Committee feels that the Society is not receiving the recognition that it deserves in view of the vast work accomplished at the Park and Aquarium. Opportunities for scientific research in connection with the collections and above all for the education of school children through moving pictures, have all been deferred, owing to lack of funds. It cannot be too strongly emphasized that the Society's work is being crippled in every direction because of insufficient endowment. Our men are insufficiently paid and our pension fund is inadequate and until these matters are remedied, the usefulness of the Society is greatly impaired.

GENERAL ENDOWMENT ACCOUNT

The General Endowment Account on December 31, 1924, amounted to \$576,198.90. The additions during the year were as follows:

Funds as of January 1, 1924.....		\$510,343.90
Estate of Mary Clark		
Thompson	\$50,000.00	
Edwin Gould	10,000.00	
Mrs. Ethel R. Thayer.....	2,000.00	
Estate of Charles E.		
Rhinelanders	1,000.00	
Life Memberships	2,000.00	
Various Subscriptions.....	855.00	65,855.00
		<hr/>
Total January 1.....		\$576,198.90

SAGE ENDOWMENT ACCOUNT

At the beginning of the year this account amounted to \$606,153.25. During the year the funds were increased by additional receipts and profits from the sale of bonds, amounting to \$42,152.25, making a total on December 31, 1924, of \$648,305.50. \$32,272.21 were drawn from this fund during the year to complete the Society's share of the Aquarium alterations, leaving a balance on hand in the fund of \$616,033.29. A grand total of \$755,319.87 has been received from the Sage Estate representing principal, accrued interest and profit on the sale of securities and stock dividend. From this, funds have been withdrawn for the completion of the Heads and Horns Museum, amounting to \$37,226.32 and for alterations on the Aquarium, amounting to \$102,060.26, leaving a total on hand in the Sage Account on January 1, 1925, of \$616,033.29.

ROCKEFELLER ENDOWMENT ACCOUNT

This account as of December 31, 1924, amounted to \$500,000.00.

GEORGE F. BAKER ENDOWMENT ACCOUNT

The Baker Endowment Account amounted to \$100,000.00 on December 31, 1924.

FLORENCE LYDIG STURGIS ACCOUNT

On December 31, 1924, the Florence Lydig Sturgis Account amounted to \$10,401.81, of which \$401.81 is interest and is available under the terms of the gift for the purchase of birds for the Zoological Park and for the protection of bird life in general.

CADWALADER ANIMAL ENDOWMENT ACCOUNT

This account amounted to \$24,296.58 on December 31, 1924, of which \$4,296.58 is interest and is available for the purchase of animals for our collections.

STOKES BIRD ENDOWMENT ACCOUNT

On December 31, 1924, this account amounted to \$5,715, of which \$5,056.46 is principal and the balance is available for the protection of birds.

CARNEGIE PENSION ENDOWMENT ACCOUNT

The Carnegie Pension Endowment Account amounted to \$100,066.25 on December 31, 1924. The Society annually donates to pensions from its General Income Account the sum of \$3,655, which, together with interest on invested principal, makes a total contribution from the Society of \$8,000. This annual income even as supplemented by the contributions of the employees, is quite inadequate to provide decent retirement pensions for the men who have faithfully served the Society for many years. This Pension Endowment account must be supplemented in the near future by at least \$100,000 in order to secure proper protection to our men. The Executive Committee recognizes the moral obligation of the Society to either increase the Society's Pension Account or to increase its annual appropriation to pensions. Its ability to carry out the latter alternative depends upon a substantial increase in our Endowment Account.

ART GALLERY ACCOUNT

On December 31, 1924, the Art Gallery Account amounted to \$2,287.58. During the year subscriptions were received from the following:

C. F. Dieterich.....	\$250.00
Cleveland H. Dodge.....	250.00
Arthur A. Fowler.....	250.00
Edward S. Harkness.....	250.00
Anthony R. Kuser.....	250.00
Ogden Mills	250.00
Mortimer L. Schiff.....	250.00
Irving K. Taylor.....	250.00
Frank K. Sturgis.....	250.00

Most of these gentlemen have agreed to make this an annual subscription for a period of four years. The Committee intends if possible each year, to secure one additional painting for the Gallery of Wild Life in the Administration Building.

TROPICAL RESEARCH ACCOUNT

The balance of this account as of December 31, 1924, amounted to \$23.82. During the year subscriptions were received to this fund as follows:

George F. Baker.....	\$1,000.00
Robert S. Brewster.....	1,000.00
T. Coleman Du Pont.....	1,000.00
Edward S. Harkness.....	1,000.00
Anthony R. Kuser.....	1,000.00
Ogden Mills	1,000.00
George D. Pratt.....	1,000.00
Mortimer L. Schiff.....	1,000.00
Harrison Williams.....	1,000.00
John E. Berwind.....	500.00
Lewis R. Morris.....	500.00
Cleveland H. Dodge.....	250.00
Miss Martha R. White.....	25.00
Special Appropriation from Society	3,766.70
Total	<u>\$14,041.70</u>

There were unexpectedly heavy expenditures in this account and a transfer from the General Income Account of \$3,766.70 was found to be necessary to meet the deficiency.

PUBLICATION ACCOUNT

This account as of December 31, 1924, shows a balance of \$236.53. During the year the following publications appeared: Bulletin—six numbers—156 pages, 148 illustrations; Zoologica—Vol. V, Nos. 4 to 16—114 pages, 36 figures. Of this same volume, Nos. 17, 18, 19 and 20 were printed, but the mailing was deferred until January. No. 2 of Vol. IV also was completed.

Publication work is proceeding upon four numbers of Vol. VI, devoted to research at Kartabo.

Vol. II was indexed, printed and mailed, and work upon an index for Vol. III is in progress.

All volumes of the Bulletin from January, 1914, to November, 1922, are being indexed and some of the matter is in type. This work will be completed early in 1925.

With the exception of \$1,198.81 of miscellaneous receipts, all income to the fund is derived from the General Income Account.

LIBRARY ACCOUNT

This account shows a balance of \$234.12 on December 31, 1924. A Librarian on part time has been employed during the year and a small number of books and periodicals have been purchased. The only source of income for this account is a transfer from the General Income Account.

HEADS AND HORNS ACCOUNT

The balance on hand on December 31, 1924, was \$88.33. \$1,000 was transferred to this account during the year. The expenditures are mostly in the upkeep rather than in the expansion of the collection.

IMPROVEMENT AND REPAIR ACCOUNT

There remains in this account on December 31, 1924, \$1,342.26. The gate receipts during the year, amounting to \$17,784.20, were transferred to this account, which was devoted to renewals and repairs at the Park, a source of expense which is becoming yearly more serious.

GENERAL INCOME ACCOUNT

This account closed the year with a balance of \$31,876.96. This is the weakest part of our finances, because this account is called upon for the administrative expenses of the Society, to help out the Pension Fund, to supply the necessary funds for the Publication Account, the Heads and Horns Account, the Library



MOUNTAIN ZEBRA COLT
Born in the Zoological Park June 10, 1924.

Account, overdrafts in the Tropical Research Account, extra compensation for our underpaid employees, and all the miscellaneous expenses of a great organization like the Zoological Society, but above all to supply the deficits in the maintenance of the Park and the Aquarium. The Executive Committee feel that additional support for this account from new endowment is an absolute necessity.

During the year the following new members were obtained :

Patrons	1
Life	10
Annual	299
<hr/>	
Total	310

The Total enrolled membership of the Society, as of December 31, 1924, was as follows :

Honorary Members.....	8
Benefactors	6
Founders in Perpetuity.....	16
Founders	8
Associate Founders	16
Patrons	33
Life Members	365
Annual Members	2,368
<hr/>	
Total.....	2,820
<hr/>	
Ladies' Auxiliary.....	33
Fellows	36
Corresponding Members	9
Sustaining Members	11

This shows a net gain over 1923 of 88, after deducting deaths and resignations.

Henry Fairfield Osborn, Jr., and George Palmer Putnam as a Membership Committee, have been active during the year in perfecting a plan of campaign for new members. This work will be continued during the coming year.

ATTENDANCE

The attendance at the Park for 1924 shows an increase over 1923. The decrease in attendance at the Aquarium is due largely to alterations in progress.

	Park	Aquarium
1923	2,395,120	1,813,647
1924	2,572,050	1,795,075
	<hr/>	<hr/>
Increase	176,930	Decrease 18,572
Total for 1924, 4,367,125.		

COLLECTIONS AT THE PARK

A census of the animals in the Zoological Park, taken January 1, 1925, was as follows:

	January 1, 1924		January 1, 1925	
	<i>Species</i>	<i>Specimens</i>	<i>Species</i>	<i>Specimens</i>
Mammals	198	553	197	554
Birds	793	2,246	804	2,246
Reptiles	93	553	78	562
	<hr/>	<hr/>	<hr/>	<hr/>
	1,084	3,352	1,079	3,362

The important acquisitions during the year were:

Mammals: 1 baird tapir, young specimen; 1 aard-vaark, 1 red-faced Yarkee monkey, 1 cinnamon "Lava" bear, 2 Lechwee waterbuck, 1 sphinx baboon; and a giraffe baby was born at the Park.

Birds: 3 Guildings amazons, 2 blue-winged grass parakeets, 5 lance-tailed manakins, 3 white-headed piping guan, 1 inca tern, 1 Verraux eagle.

Reptiles: 1 rock python.

The health of the animals continues excellent and the only important losses during 1924 were as follows:

Mammals: 1 Alaskan brown bear "Ivan," 1 aard-vark, 1 red-faced Yarkee monkey, 1 beatrix antelope, 1 Anticosti black bear, 1 mandrill, 1 orang-utan, 2 sea-lions.

Birds: 1 Ostrich, 1 Manchurian crane, 1 six-plumed bird of paradise.

Reptiles: 2 black cobras, 1 electric eel, 2 rock pythons.

COLLECTIONS AT THE AQUARIUM

	January 1, 1924		January 1, 1925	
	<i>Species</i>	<i>Specimens</i>	<i>Species</i>	<i>Specimens</i>
Fishes	116	3,727	114	2,936
Aquatic Reptiles	18	99	16	107
Amphibians	9	58	6	92
Invertebrates	16	544	11	2,083
Mammals	1	1	1	1
Birds	2	2	2	2
Total	162	4,431	150	5,221

ALTERATIONS

Alterations at the Aquarium are progressing, although there is still more work to be done before completion. A total of \$32,272.21 was spent by the New York Zoological Society for the year 1924, covering the following work:

Plans purchased by Society from McKim, Mead & White.....	\$ 4,038.76
Changes in equipment.....	\$21,517.06
New Tank Room on roof.....	1,360.00
Connecting radiators, labor, ma- terial, etc.	513.58
Changes in equipment due to alterations of building. Contractor, James McCullough..	\$23,390.64
Construction Painting Company (Painting Pipes)	250.00
George Weidermann Electric Co. (tempor- ary wiring)	117.81
Johnson, Livingston & Co. (new wiring)....	340.00
Shipley Construction and Supply Co. (Re- frigerating Equipment—Moving Conden- ser, etc.)	2,335.00
H. deB. Parson (professional services).....	1,800.00
Total	\$32,272.21

The total cost of Aquarium alterations to January 1, 1925, is \$196,452.59, of which the City spent \$86,847.30 and the Society \$109,605.29. It is estimated that about \$40,000.00 more will be required to complete the City's share of alterations.

MAINTENANCE

Park.—The sum of \$264,514.49 was provided by the City for the maintenance of the Park for the year 1924. This was quite insufficient for the needs of the Park and a net deficit of \$17,-965.65 had to be paid by the Society from its unfortunate General Income Account to meet the City's inadequate appropriation, chiefly for food and coal. The City appropriated the same amount for maintenance for 1925 as for 1924. This amount is also quite inadequate and the Society will have to meet a much larger deficit during 1925. *Aquarium.*—The City provided \$58,-309.00 for the maintenance of the Aquarium in 1924, and \$58,-334.00 for 1925. These amounts are insufficient to maintain the Aquarium on its present basis and the deficit will have to be met by the Society. Every effort is being made to induce the City authorities to take a more liberal view of these two institutions and especially to provide a higher scale of wages for employees, who are now greatly underpaid in comparison with the employees of the City holding similar positions.

TROPICAL RESEARCH

Mr. William Beebe went with his staff in February, 1924, to Kartabo in British Guiana and remained there until July. He thereupon turned over the station to a group of graduate students of the University of Pittsburgh. The work of the year was concentrated on the completion of the six years of intensive study in the vicinity of Kartabo Station and a preparation of the results for Zoologica.

Preparations were also made for fitting out the "Arcturus," which was lent to the Society by Mr. Henry D. Whiton for the deep-sea expedition of 1925.

"Galapagos; World's End," being the narrative of the seventh expedition, was published by G. P. Putnam's Sons, under the auspices of the Zoological Society and achieved great popularity.

ARCTURUS EXPEDITION

Arrangements have been made through the great generosity of Mr. Henry D. Whiton and Mr. Harrison Williams for an oceanographic expedition under the direction of Mr. William Beebe, Director of the Tropical Research Department, and his staff. The expedition will start about February 10, 1925, and will make a thorough study of the surface and deep-sea fauna of the Sargasso Sea in the Atlantic and of the Humboldt Current in the Pacific, off the northern coast of South America. Mr. Whiton has loaned the 2,400-ton steamer "Arcturus" for this purpose and the funds for the expedition have been supplied by: Harrison Williams, Marshall Field, Vincent Astor, Clarence Dillon, George F. Baker, Jr., and others.

MEDICAL DEPARTMENT

The Executive Committee still hopes to be able to obtain funds sufficient to erect and maintain a Biological Laboratory where the material obtained in the Park can be properly utilized for scientific research. This offers an opportunity to friends of the Society to provide for the scientific study of living animals, especially the psychology of the higher vertebrates, and for careful studies of the anatomy of the soft parts of such animals as die.

REPORT OF PROSECTOR

Owing to the illness of the Prosector, Dr. George S. Huntington, no report has been received, but Dr. William K. Gregory, of the American Museum of Natural History, reports that during the year 250 specimens were received from the Zoological Park and were distributed to the various departments of the Museum.

This material is now being used in investigations on the comparative myology of the limbs of Primates and in graduate researches in comparative myology. The injected series will also be used in studying the circulatory system.

PROFESSOR OSBORN'S PORTRAIT

Professor Osborn having decided to retire from the Presidency of the Society after continued service on the Executive

Committee and as President of the Society since its organization, his friends on the Board of Managers presented the Society with a full length portrait. This portrait, by Julian Lamar, will be installed in the south room of the Administration Building at the Park. The names of the donors of this portrait are as follows:

Madison Grant	George F. Baker
Frank K. Sturgis	Edward S. Harkness
Percy R. Pyne	William B. Osgood Field
Anthony R. Kuser	Ogden Mills
Cleveland H. Dodge	Frederic C. Walcott
C. Ledyard Blair	Archer M. Huntington
Lispensard Stewart	George C. Clark, Jr.
Charles F. Dieterich	

CONSERVATION

During the year the Society made a small contribution from its funds to help the work being done by the National Parks in the interest of the preservation of American birds and animals. The Society endorsed a number of conservation projects, notably the proposed Gorilla Sanctuary in Central Africa, and has under consideration plans for the preservation of the giant Tortoises of the Galapagos Islands.

GENERAL OFFICE

The executive office of the New York Zoological Society was moved on May 1st from 111 Broadway to 101 Park Avenue.

RECEPTIONS

Annual Dinner.—The Sixteenth Annual Dinner to the Board of Managers was held through the courtesy of Mr. Mortimer L. Schiff, at 932 Fifth Avenue, on Wednesday, December, 26, 1924.

Spring Meeting.—The Spring Meeting of the Board of Managers was held in the Administration Building on Thursday, May 15, 1924. The meeting was preceded by a luncheon and followed by the Annual Garden Party at which the Ladies' Auxiliary acted as a Reception Committee.

MEMORANDUM OF MEETINGS

1925-1926.

Annual Meeting of the Society:

JANUARY 12, 1926, 8:30 P. M.

Hotel Waldorf-Astoria.

Meetings, Board of Managers:

Annual Meeting:

Park Meeting:

January 19, 1926, 3:00 P. M.

May 21, 1925, 2:30 P. M.

Down Town Association.

Preceded by Luncheon at 1:30 P. M.

Annual Dinner:

December 26, 1925

Executive Committee Meetings:

January 22

May 13

February 11

June 10

March 11

October 14

April 8

November 11

December 9

Members' Day and Ladies' Day at the Zoological Park:

May 21, 1925, 3:00 P. M.

AUDITING

The Auditors, Messrs. Peet, Marwick, Mitchell & Co., have audited and found correct the accounts of the Society.

The Auditor's Report, as well as that of the Auditing Committee, follows the Report of the Treasurer.

CONSERVATION RESOLUTIONS

Introduced by Dr. Charles H. Townsend, Director of the New York Aquarium, and unanimously passed by the New York Zoological Society at its thirty-first annual meeting, held at the Waldorf-Astoria, on Tuesday, January 13, 1925.

Whereas, the elephant seal of Guadalupe Island was long supposed to be extinct, but is now slowly increasing in numbers under the protection of the Mexican government; and

Whereas, the Guadalupe fur seal, formerly abundant on that island, is possibly still surviving there; and

Whereas, both of these seals were of great commercial importance in the past and should be preserved for the future;

Now, Therefore, be it

Resolved, that the New York Zoological Society communicate with the proper authorities in Mexico and request a continuance of the protection of these animals in Mexican waters, and further that it communicate with the United States Biological Survey and recommend that steps be taken to protect these seals in California waters.

Whereas, the authorities of British Columbia, Washington and Oregon have, at the instigation of salmon packers, permitted the destruction of large numbers of sea lions on their breeding grounds by dynamite, machine guns and other means of destruction.

Now, Therefore, be it

Resolved, that the New York Zoological Society urge upon the proper authorities the protection of these animals.

Whereas, the remnant of the giant tortoises of the Galapagos Islands are threatened with early extinction through the destruction of their eggs and young by wild dogs and pigs, and by the slaughter of the adults for oil; and

Whereas, there is no hope for their perpetuation on the Galapagos Islands;

Now, Therefore, be it

Resolved, that the New York Zoological Society take steps to capture and transport such tortoises as can be secured, to a

suitable place, preferably an island within the jurisdiction of the United States, where suitable climatic conditions would favor their increase and perpetuation.

TWENTY-FIFTH ANNIVERSARY

On November 8, 1924, occurred the 25th anniversary of the opening of the Park. The occasion was celebrated by a dinner given by the Society to all officers and employees of the Park. The event was notable by the presence of 8 officers and 28 employees, who had served in the Park for more than twenty years, many of them having been in the employ of the Society since the gates of the Zoological Park were first thrown open to the public.

ACKNOWLEDGMENTS

The Directors of the Park and Aquarium and their respective staffs have worked faithfully to maintain their institutions at a high standard of efficiency. The Committee desire to acknowledge, with appreciation, their zeal and energy.

Respectfully submitted,

MADISON GRANT, *Chairman.*

PERCY R. PYNE,	HARRISON WILLIAMS,
WILLIAM WHITE NILES,	HENRY D. WHITON,
FRANK K. STURGIS,	GEORGE D. PRATT,
ANTHONY R. KUSER,	HENRY FAIRFIELD OSBORN, JR.
CORNELIUS R. AGNEW, <i>Ex-officio.</i>	



TRUMPETER SWANS

A pair of this rare species is exhibited on the small pond at the Zebra House.

REPORT OF THE LADIES' AUXILIARY

By (MRS.) HENRY FAIRFIELD OSBORN, *Chairman*

THE Ladies' Auxiliary reports a busy year for 1924. The usual business meeting was held in February, also the mid-winter lecture, which, through the kindness of Mrs. Harold Irving Pratt, was given at her residence, 58 East 68th Street, on February 13th. Mr. Roy Chapman Andrews gave his remarkable lecture, "How We Discovered the Dinosaur Eggs," and a large attendance enjoyed the marvelous motion pictures of Mongolian life, and the vivid descriptions of some of the explorations of the Third Asiatic Expedition of the American Museum of Natural History. The meeting was very successful, as well as enjoyable—21 new annual members being secured for the Zoological Society.

The usual annual Garden Party was given at the Zoological Park on May 15, 1924, with fine accompaniment of stirring music, animated crowds and the lovely setting of the Park, just then in its most exquisite Spring beauty. The motion pictures of the animals in the Park, which had been so greatly enjoyed the previous year, were repeated, to the great delight of the crowds of guests.

During the summer, Miss Pauline Robinson, who is Chairman for the Children's Excursions to Bronx Park, received from members of the Ladies' Auxiliary the sum of \$415 toward the cost of these excursions—the largest amount ever received for this purpose. With this money, 2,491 children were taken to the Park from 17 different play centers, always accompanied by one or more play leaders. The parties averaged from 30 to 50 children, from the poorest tenement sections of the city. Many of them had never before been outside of their own district, and they called the trip to the Park, "going to the country." As the

expense of carfare to and from the Park is met by the courtesy of the Interborough, which issues passes over its lines, the money supplied by the Ladies' Auxiliary could be entirely devoted to refreshments for the children, and to the payment of the salaries of the play leaders who accompany them.

The Junior Auxiliary, of which Mrs. Clarence G. Michalis is Chairman, reports an active membership of 208, and a balance on hand at the end of 1924, of \$560.25, the accumulation of two years' dues. This is soon to be applied to the purchase of an animal for the Park, as a gift from the children of the Junior Auxiliary. The usual annual lecture for the children was given on January 3, 1924, at the home of Mrs. Michalis, when Mr. Ditmars gave a most interesting illustrated talk to an enthusiastic audience of children and older people.

The Chairman of the Ladies' Auxiliary greatly desires to complete the sum of \$5,000, which is to be known as the Ladies' Auxiliary Endowment Fund, and is to be the contribution of the Auxiliary toward the permanent Endowment Fund of the Society. During the year 1924, the following donations were received:

Mrs. Henry M. Tilford.....	\$100
Mrs. Wm. B. Osgood Field.....	100
Mrs. Alexander S. Webb.....	100
Mrs. Percy Pyne.....	100
Mrs. Finley J. Shepard.....	200

making a total of \$600 received in 1924.

Added to the \$2,870 previously reported this gives the sum of \$3,470 received to December 31, 1924—and leaves \$1,530 still to be collected. Contributions may be sent to the Chairman, Mrs. Osborn, at 998 Fifth Avenue.

(MRS.) CLARENCE G. MICHALIS, *Chairman, Junior Auxiliary*,
455 Madison Avenue.

(MISS) PAULINE ROBINSON, *Chairman, Children's Excursions*,
129 East 35th Street.

THE LADIES' AUXILIARY

OF THE NEW YORK ZOOLOGICAL SOCIETY

Baker, Mrs. George F., Jr.,	Niles, Mrs. William White,
Cuyler, Miss Eleanor deGraff,	Olin, Mrs. Stephen H.,
Daniels, Mrs. Lorenzo,	Osborn, Mrs. Henry Fairfield,
Field, Mrs. Marshall,	Parsons, Miss Mary,
Field, Mrs. William B. Osgood,	Pyne, Mrs. Percy R.,
Fincke, Mrs. Reginald,	Robinson, Miss Pauline,
Fowler, Mrs. Arthur,	Rockefeller, Mrs. William G.,
Grant, Mrs. DeForest,	Shepard, Mrs. Finley J.,
Hamilton, Mrs. Morgan,	Stevens, Mrs. Richard,
Harriman, Mrs. J. Borden,	Thorne, Mrs. William V. S.,
Hastings, Mrs. Thomas,	Tilford, Mrs. Henry M.,
Hoyt, Mrs. Henry R.,	Townsend, Mrs. E. M.,
McKay, Mrs. Robert Gordon,	Trimble, Mrs. Richard,
Maynard, Mrs. Walter E.,	Webb, Mrs. Alexander S.,
Martin, Mrs. Shelton E.,	Whitney, Mrs. George,
Michalis, Mrs. Clarence G.,	Whitridge, Miss Joan,
Woodward, Mrs. William.	



PART OF OUR PYGMY HIPPOPOTAMUS HERD

This interesting exhibit now numbers five animals, two of them born in the Park. The fifth specimen is of uncertain temper and could not be included in the picture.

REPORT OF THE DIRECTOR OF THE ZOOLOGICAL PARK

By WILLIAM T. HORNADAY

SO FAR as the animal collections and the visitors of the Zoological Park were concerned, the records of the year 1924 leave almost nothing to be desired. In educational value, the collections reached the highest point they ever have attained; and the total of losses by death was the lowest in our history. The attendance of visitors reached its highest point, 2,572,050. Weather conditions during the year were particularly good.

Over all this, however, has loomed the spectre of Plant Deterioration. And it continues to loom. At one point we so nearly achieved an issue of \$30,000 worth of special revenue bonds, for a long list of repairs, that it seemed actually within our reach. At the last moment, however, it suddenly vanished, and all those repairs continue to stand unmade and undone.

Meanwhile, the tile covering of the Elephant House roof has put in a heavy claim for attention, marked "Immediate," and in this case "delay" will be spelled with four letters—R-U-I-N. The surface of those once perfect tiles has disintegrated, and water upon the structural steel of that roof would quickly mean an entire new roof structure, at a cost of perhaps \$50,000! Prompt action now means a saving of about \$25,000. The Elephant House is our finest and most imposing building. The answer is—a roof covering of copper instead of tiles. Under this head much might be said, but in view of the possibility of relief for this strained situation by an issue of special revenue bonds, it is unnecessary to enter upon details. The members of the Society and visitors to the Park are assured that these matters have been occupying our minds, and they are asked to exercise patience and forbearance until certain defects in our establishment have been remedied.

EDUCATIONAL INFLUENCE OF THE PARK

Of the three basic objects that formed the foundation of the New York Zoological Society, the third one was, and ever will be, "the promotion of zoology." Stated in other words, it means the diffusion of wild-animal lore among the millions of people of America, and the world at large.

On the influence of the exhibits of the Zoological Park upon those who see them, we do not need to dwell. Now we may, however, refer to the educational activities in the form of illustrated animal lectures, books, magazine articles and a countless number of newspaper "feature stories," great and small, that have been put forth among the millions in and beyond New York City. In these activities, every officer of the Zoological Park staff has participated; and the results achieved make up a large total.

For much of this we owe much to the periodical and newspaper press. The high quality of the "wild-animal stories" now put into print annually by the magazines and newspapers of the United States is profoundly gratifying. The truthfulness of the most of it is apparent in its lines, and it is for this reason that the reading public now absorbs it with eagerness, and is ever ready for more. Twenty-five years ago we labored to convince newspaper reporters and editors that in dealing with wild animals *truth is stranger than fiction*, and the *truth is what the people want*. It is no longer necessary to insist upon the soundness of those two propositions.

During the past year Mr. Ditmars completed his great series of forty-three educational moving-picture films of wild-animal subjects. Upon that work he had for ten years been engaged, and in the cost of it he had invested a large sum. The launching of that series, which displays a great number of our finest animals in action, as well as a great number of the lower forms of life, was for the Zoological Park an important event, and as a contribution to popular zoological education in the United States it will exert a wide influence.

ATTENDANCE OF VISITORS

Public appreciation as it is registered by the turnstiles of zoological parks and gardens last year reached here the highest

record ever known, which was 2,572,050 visitors. The monthly figures are shown below:

	1924	1923
January	63,915	29,886
February	70,387	46,370
March	217,597	158,763
April	227,925	192,900
May	296,856	386,444
June	419,047	309,156
July	373,209	320,742
August	317,078	291,801
September	201,778	310,560
October	214,431	147,169
November	112,458	109,906
December	57,369	91,423
	<hr/> 2,572,050	<hr/> 2,395,120

COLLECTIONS

The animal collections as a whole have been, and are, highly satisfactory. The widely representative character of the various zoological groups, the number of important types, the number of rare species and the excellent general health of the exhibits were very gratifying. The losses by deaths during the past year were really insignificant, but this good fortune can by no means be expected to continue, nor to be often repeated.

Among the mammals the most notable births were a Nubian giraffe baby and a mountain zebra colt. The most important animals obtained by purchase were a Baird's giant tapir from Panama, and a full-grown aard-vark from East Africa.

The most important bird arrivals were three fine adult specimens of the great Guilding Amazon parrot, from St. Vincent Island, West Indies, all obtained for us by Mr. Gerald Thayer. One was the gift of Mr. Alban da Santos, of Kingstown, St. Vincent, and the other two were presented by Mrs. Thayer.

DEPARTMENT OF MAMMALS

W. T. HORNADAY, Curator; R. L. DITMARS, Assistant Curator;
JOHN TOOMEY, Head Keeper.

An important addition to the mammal exhibits was made during 1924 as a gift from Dr. Lillian D. Powers, of White



EAST AFRICAN BUSH PIG

Potamochoerus koiropotamus daemonis (Major).

The Society's collection of wild swine now numbers five species and ten specimens.

Plains, New York. It consists of a complete rebuilding and expansion of a section of the Small Mammal House, both inside and outside cages. The outer cages of this section have been changed to the form of high, arched enclosures for squirrels—the design carefully studied to produce the most attractive and healthful conditions for these interesting animals. It is Dr. Powers' intention to donate additional funds for the extension of this series.

The squirrels as a group, arranged collectively, form a very showy exhibit. There are many species, and among these is a wide variety of forms and colors. Along with the gift of money to cover cage construction, Dr. Powers presented the Society with a fine series of southern and tropical squirrels.

A system of horizontal and vertical branches, sunning shelves and exercising devices assist in showing the squirrels to the best possible advantage. These little animals are extremely active if properly exhibited. The display has been a great success. Dr. Powers' private collection, housed in special



RED BUSH PIG

Potamochoerus koiropotamus mashona (Lonnberg).
The habitat of this species is Mashonaland, Rhodesia.

rooms in her commodious home at White Plains, has acquired international fame.

The collection of mammals has been enriched by many new and valuable specimens during the year. The general condition of the entire collection as to health and accidents has been uniformly excellent. There were many interesting births and few losses.

Gifts are acknowledged in detail in another portion of this report, but it is of interest here to note the popularity of one donation received from Ensign George K. Hodgkiss, of the United States Navy, on December 10th. Ensign Hodgkiss was stationed on the U. S. S. *Lawrence*, which was dispatched to Labrador to await the arrival of the 'round-the-world fliers. While awaiting the west-bound planes he obtained two of the "huskies" or Eskimo dogs used in sledge travel—fine, wolf-like animals, which were brought to New York and presented to the Society. It was not long after that the diphtheria epidemic broke out at Nome, Alaska, and the now-famous dog teams of

that region made their spectacular dash with the life-saving serum. Interest in the sledge dogs of the North ran high, and in addition to the label acknowledging the gift, another was provided, giving the status, endurance and other points of interest relating to these animals. They still remain one of the most popular exhibits in the Park.

The most important purchase of the year was the young Baird's giant tapir, one of the least known big-game animals of the New World. This is the first example of the species successfully exhibited in the Zoological Park, and is rapidly growing. Also of marked importance is a pair of the rare white-lipped peccary, a species we have constantly sought during the past 25 years, but now exhibited for the first time. Another animal new to the collections and received during the year was an adult specimen of the aard-vark, and also new to the collections were a yarkee monkey and a superb example of the spotted colobus monkey. But few specimens of any of these species have ever reached the United States alive.

Additional important purchases were an adult pair of the lechwe waterbuck, an adult red howling monkey, a drill, sphinx baboon and Mongolian wild horse.

The following is a list of the most important births during 1924:

1 Giraffe	3 Red Deer
3 Yaks	1 Hog Deer
2 Aoudad	2 Axis Deer
3 Mouflon	2 Barasingha Deer
4 Himalayan Tahr	1 Chapman Zebra
3 White-tailed Deer	1 Ring-tailed Wallaby
6 Fallow Deer	1 Rufous-necked Wallaby

The deaths chiefly involved very old animals, some of which had been in the Park for the past 20 years, or longer. They include some aged deer (mercifully destroyed), a bear 22 years old, a South American black bear, a male orang-utan, and most unhappily, the aard-vark, the latter living only four months after arrival. An outbreak of anthrax in the aoudad herd was quickly checked, but at the first sign it carried off four animals.

A census of the collection, prepared at the close of the year is as follows:

CENSUS OF THE MAMMALS, JANUARY 1, 1925

<i>Orders</i>	<i>Species</i>	<i>Specimens</i>
Marsupialia	17	46
Carnivora	47	106
Pinnipedia	2	4
Rodentia	22	67
Edentata	1	1
Primates	44	83
Artiodactyla, (Even-toed Ungulates)....	48	223
Perissodactyla, (Odd-toed Ungulates)..	13	21
Proboscidea	3	3
Total	197	554

DEPARTMENT OF BIRDS

LEE S. CRANDALL, Curator; WILLIAM BEEBE, Honorary Curator;
SAMUEL STACEY, Head Keeper.

During 1924, the number of birds available in the open market remained at a point which we must now consider as normal. This really means that shipments were few and far between, with many once common species missing and new ones appearing but seldom. The zoological parks of America are in a rather unfortunate position, at least as far as their bird supplies are concerned, for they must depend upon the vagaries of dealers for the major portion of their renewals. We take advantage of every opportunity to secure additions through private sources and occasionally we are successful, but no collection of the size and scope of ours can be maintained in this manner. The bulk of our accessions must be secured in an uncertain and fluctuating market, at prices which are constantly mounting.

So far as importations of birds are concerned, Australia, once a fertile source, is now practically a closed continent. This is due to the legal restrictions that have been imposed on exportations by bird collectors and dealers. South Africa, which formerly furnished numbers of small waxbills and weavers, is in much the same case; local protective laws in each country having put a stop to wholesale exportations. In general, there can be no objection to these excellent measures, but zoological gardens must now do without many species that still are really abundant.



THE RARE ARGUS PHEASANT

This interesting species, not often seen on exhibition, is one of the two species of *Argus* pheasant. The habitat of *Argusianus argus* is the Malay Peninsula and Sumatra; the other is found in Borneo and possibly islands adjacent to it.

This specimen has lived in the Park about seven years.

Abyssinia has recently been opened by professional collectors and many fine species from that country have reached the American market. Among several secured by the Zoological Park are the Abyssinian love-bird (*Agapornis taranta*), until last year a very rare bird; the Abyssinian barbet (*Trachyphonus m. margaritatus*) and several beautiful glossy starlings of the genus *Spreo*. Probably because of continuing high freight rates, arrivals from India have been few during the past two years. Birds from Southern South America reach us only in small numbers, via Europe, but several excellent importations have come from the northern portions, principally from Venezuela. One of these consignments included the very rare lance-tailed manakin (*Chiroxiphia lanceolata*). This beautiful little bird, with black breast, bright blue back and brilliant crimson crown, probably has never before been kept in captivity. Its habits are little known, but so far we have been successful in exhibiting our specimens in perfect condition.

Probably the most important arrival of the year was that of three fine specimens of Guilding's Amazon parrot (*Amazona guildingii*), secured through the efforts of Mr. Gerald H. Thayer, of New York, one as the gift of Mr. Alban da Santos, of St. Vincent, B. W. I., and two presented by Mrs. Thayer. Guilding's Amazon is one of the largest of this genus and is a bright yellowish bronze in color, varied in wings and tail with blue and gold. Once a common bird on St. Vincent, the species is now very much reduced, the few survivors being found only in the mountainous and almost inaccessible interior of that island.

SPECIES OF BIRDS NEW TO THE COLLECTION

Received during 1924.

- White-headed Piping Guan—*Pipile cumanensis* (Jacq.).
- Chinese Bamboo Partridge—*Bambusicola thoracica* (Temm.).
- Common Hemipode—*Turnix pugnax* (Temm.).
- Jambu Fruit Pigeon—*Leucotreron jambu* (Gmel.).
- South African Tambourine Dove—*Tympanistria t. tympanistria* (Temm. and Knip.).
- Stair's Pigeon—*Gallicolumba stairi* (Gray).
- Buff-hooded Pigeon—*Gallicolumba xanthonura* (Temm.).
- Chilean Pigeon—*Chloroenas araucana* (Less.).
- Cayenne Rail—*Cresciscus viridis viridis* (Mull.).

- Spotted Rail—*Pardirallus maculatus* (Bodd.).
 Pacific Bridled Tern—*Sterna anaetheta nelsoni* (Ridg.).
 Inca Tern—*Larosterna inca* (Less.).
 Verraux Eagle—*Aquila verreauxi* (Less.).
 Pacific Horned Owl—*Bubo virginianus pacificus* (Cass.).
 St. Vincent Barn Owl—*Tyto insularis insularis* (Pelz.).
 Guilding Amazon Parrot—*Amazona guildingii* (Vig.).
 Mercenary Amazon Parrot—*Amazona mercenaria* (Tsch.).
 Wagler Conure—*Aratinga wagleri* (Gray).
 Haitian Conure—*Aratinga chloroptera chloroptera* (Souancé).
 Abyssinian Lovebird—*Agapornis taranta* (Stanley).
 Blue-winged Grass Parrakeet — *Neonanodes chrysostomus* (Kuhl.).
 Greater Rufous Motmot—*Urospatha martii semirufa* (Scl.).
 Abyssinian Barbet—*Trachyphonus margaritatus margaritatus* (Rupp.).
 Aztec Thrush—*Ridgwayia pinicola* (Scl.).
 Indian White-eye—*Zosterops palpebrosa* (Temm.).
 Alpine Accentor—*Prunella collaris collaris* (Scop.).
 Lance-tailed Manakin—*Chiroxiphia lanceolata* (Wagl.).
 Orchard Finch—*Phrygilus fruticeti* (Kittl.).
 White-naped Sparrow—*Atlapetes albinucha* (D'Orb. and Lafr.).
 Mexican Ant Tanager—*Phoenicothera rubica rubicoides* (Lafres.).
 Superb Glossy Starling—*Spreo superbus* (Rupp.).

CENSUS OF BIRDS LIVING IN THE NEW YORK ZOOLOGICAL PARK

January 1, 1925

		Species	Specimens
Rheiformes,	Rheas	1	2
Struthioniformes,	Ostriches	2	3
Casuariiformes,	Cassowaries and Emus..	2	6
Tinamiformes,	Tinamous	3	6
Galliformes,	Quail, Pheasants, etc.....	66	155
Turniciformes,	Hemipodes	2	4
Pteroclitidiformes,	Sand Grouse	1	4
Columbiformes,	Pigeons and Doves.....	69	193
Ralliformes,	Rails and Gallinules.....	16	36
Lariformes,	Gulls and Terns.....	16	58
Charadriiformes,	Plovers and Sandpipers..	9	19
Gruiformes,	Cranes, Seriemas, etc....	15	27

Ardeiformes,	Ibises, Storks and Herons	29	52
Palamedeiformes,	Screamers	3	5
Anseriformes,	Swans, Geese and Ducks	55	320
Pelecaniformes,	Cormorants, Pelicans,		
	etc.	12	29
Cathartidiformes,	New World Vultures.....	3	5
Accipitriformes,	Old World Vultures		
	Hawks and Eagles.....	27	36
Strigiformes,	Owls	16	27
Psittaciformes,	Parrots, etc.	90	201
Coraciiformes,	Kingfishers, Hornbills,		
	etc.	8	10
Cuculiformes,	Cuckoos and Touracos....	7	12
Scansoriformes,	Barbets and Toucans.....	15	20
Piciformes,	Woodpeckers	2	3
Passeriformes,	Perching Birds	335	1,013
		<hr/>	<hr/>
		804	2,246

Summary: Orders, 25; Species, 804; Specimens, 2,246

DEPARTMENT OF REPTILES

RAYMOND L. DITMARS, Curator; JOHN TOOMEY, Head Keeper.

From the large amount of educational work carried on by this department, it has become intimately associated with biological study in the schools. The Curator delivers an extensive series of lectures during the winter months, and these result in later gathering of teachers at the Reptile House. Our conferences are mutually helpful, and in a number of instances, where important and definite programs have been laid out for biological instruction, we have loaned series of living specimens for the assistance of the teachers. The most elaborate series of this kind is now in the zoological room of the Washington Irving High School, to which the Society annually loans a collection of mammals, birds and reptiles, and also assists in the care of the specimens.

Mr. Paul B. Mann, Chief of Biological Instruction of the schools of the city, continues to send large classes of students (accompanied by a teacher) to the Park. The results of lectures delivered on the floor of the Reptile House have been highly successful.



TWO INTERESTING LIZARD SPECIES

The larger specimen is the Mexican Beaded Lizard, *Heloderma horridum* (Wiegman), and the smaller and better known Gila Monster, *Heloderma suspectum*, inhabits our own western desert country. These are the only known poisonous lizards in the entire world.

The number of detailed queries in our correspondence shows a keen interest in reptiles generally. In answer to a particularly frequent query, relating to the exact sound produced by a rattlesnake, the Curator decided that the broadest and most satisfactory answer would be by utilization of the snake itself by radio. The experiment was conducted through the courtesy of Radio Broadcasting Station WOR, at Newark, New Jersey. The Curator of Reptiles spoke briefly about the habits and structure of the rattlesnake, then had a vigorously buzzing specimen (in a mesh-fronted box) brought into the studio from an adjoining room, and placed before the microphone. We were rather appalled at the interest created. More than 400 letters were received within a week's time. The rattling of the snake was clearly picked up by receivers as far west as western Iowa, in Canada, Nova Scotia, by ships at sea (one of these 1,200 miles from shore), while southern acknowledgments came from Texas, Florida, Georgia, South Carolina and Tennessee. To illustrate the possibilities of such experiments we have posted a wireless map in the lobby of the Reptile House, with red pins indicating the territory through which the demonstration carried.

The reptile collection remains at very high standard from the point of view of exhibition value. The series of deadly serpents is particularly noteworthy. Fourteen cobras, representing five distinct species are on exhibition. The majestic King Cobra, possibly the most dangerous living wild creature in the United States, remains in fine condition.

But few reptiles, except local species, were added during the year. There were comparatively few losses. Following is a census of the collection prepared at the close of the year:

	<i>Species Specimens</i>	
Crocodylia	4	46
Chelonia	17	145
Lacertilia	7	34
Ophidia	42	201
Amphibians	8	136
	<hr/>	<hr/>
Total	78	562

A complete enumeration of the animal collections is as follows:

CENSUS OF THE ZOOLOGICAL PARK COLLECTIONS

January 1, 1925

	<i>Species</i>	<i>Specimens</i>
Mammals	197	554
Birds	804	2,246
Reptiles and Amphibians.....	78	562
	<hr/> 1,079	<hr/> 3,362

REPORT OF THE VETERINARIAN

W. REID BLAIR, D. V. S.

One of the important losses during the year was the recently acquired and extremely rare aard-vark, which contracted pneumonia after being in our collection for four months, after we believed it had been completely acclimatized and that we had solved the problem of its diet.

With the exception of the aard-vark, the losses were principally confined to the more common and easily replaced arrivals. The only other rare specimen lost was a red-faced yarkee monkey.

While, on the whole, the health of the animals has been uniformly good during the past year, still there have occurred a number of acute infectious diseases, which, however, have been satisfactorily controlled, and quickly stamped out without extensive losses.

Four cases of anthrax occurred among the aoudad on Mountain Sheep Hill. Prompt isolation and disinfection prevented the disease from spreading to the animals in the adjoining corrals. While anthrax is an acute infectious disease, principally occurring in herbivora, it may under favorable conditions become communicable to carnivora and birds. In past years we have seen the disease affecting deer, buffalo, sheep and goats, all of these species being highly susceptible to infection. The disease is due to the introduction into the blood or tissues of the *Bacillus anthracis*, or its spores. The organisms are always found in the anthrax lesions, and in the blood of the victim in advanced stages. Spore-bearing material, in the shape of hay or grain grown upon infected areas, is quite capable of giving rise to cases of anthrax.

Since anthrax is a rapidly fatal disease, and the animal frequently is found dead in the range without any previous history of illness, the diagnosis can only be made on post-mortem examination. In the cases seen among the aoudad the animals showed rapid breathing, dilated nostrils, bluish color of the mucous membranes of the nostrils and mouth, trembling, staggering movements, prostration, convulsions and death within a few hours. The examination of the spleen and blood showed the infection to be anthrax. Owing to the difficulty of destroying the infection of anthrax, the carcass should either be buried in a trench covered with lime, or cremated, the latter being the most effective method of disposing of the carcass. This should be followed by burning all contaminated bedding and litter, and rigid disinfection of the surroundings.

This troublesome disease, after a lapse of several years, again appeared among two of our kangaroos. It is one of the most important infectious diseases affecting kangaroos and wallabies.

Hemorrhagic septicemia is an acute infectious disease, affecting deer, buffalo, sheep, goat, swine and other animals. It is characterized by symptoms of general poisoning, with the formation of submucous, or subcutaneous hemorrhages. It is caused by organisms of the "fowl cholera type." These organisms are present in the blood of affected animals in enormous numbers. The post mortem changes in the organs correspond with those observed in domestic animals.

Although various types of the disease are recognized in different species, there are certain general symptoms common to all. The course of the disease may be very rapid in some instances, and one or more animals may be found dead without any history of previous illness. Young animals have been known to succumb within five hours after the first appearance of any symptom was noted. Loss of appetite, dilated nostrils, quick breathing, congested eyes, depression and stiffness of gait are some of the prominent symptoms of the disease. Severe diarrhoea is often noted. While hemorrhagic septicemia may be confounded with anthrax, it is readily distinguished by a bacteriological examination of the blood. The spleen is not markedly enlarged as in anthrax.

All attempts at medicinal treatment of this disease have failed. Prophylactic vaccines offer the best means of protec-



WHITE-LIPPED PECCARY

This species *Dicotyles labiatus* (Cuv.), is exhibited for the first time in the Park. The other species of peccary, *Tayassu tajacu* (Linn.), is better known and has been on exhibition here for some time. These are the only representatives in America of the wild swine of the world.

tion against the disease. Isolation, or, better still, destruction of affected animals if complete isolation can not be carried out, will prove the most profitable means to combat this disease when it occurs in a herd. Animals which have been in contact with those affected should be isolated and kept under close observation. Thorough disinfection of buildings and corrals is necessary. Care should be taken that all bedding and food contaminated by infected animals should be burned. Cremation is the most effectual way of disposing of the bodies of animals dying from this disease.

Distemper pneumonia was the cause of death in a collection of squirrels recently acquired by gift. Fortunately, these animals were all confined to one end of the Small Mammal House, and the disease did not spread to any other animals in the collection.

Sarcoptic mange also was found affecting a number of squirrels, but this disease was controlled and cured by dipping the animals in parasiticide solutions.

Kangaroo "jaw disease" is an acute infectious disease affecting kangaroos and wallabies, and is characterized by swellings and ulceration about the jaw and face, caused by an organism belonging to the *streptothrix*. The disease attacks the tissues of the lips, eyes, teeth, tongue and submaxillary and parotid glands. Animal dealers recognize the disease as a fatal affection commonly seen in Australian marsupials. While the disease is most frequently seen affecting the tissues of the head, a generalized form is occasionally met with which produces a generalized septicemia.

The disease is not contagious, since it most frequently occurs in isolated cases among a group of cage mates. The organism apparently gains entrance to the animal's body through wounds or abrasions in the mucous membranes of the mouth. In this connection it is significant that Dr. A. S. Le Souef, Director of the Zoological Garden of Sydney, Australia, who has had a great opportunity for observing this disease among the marsupials in the Australian zoos, is of the opinion that the organism gains entrance to the tissues through injuries produced by spear or barley grass in the animal's food.

It is often difficult to detect the early stages of the disease, and it is frequently not until the appearance of a distinct en-

largement is noted along the base of the lower jaw bone that attention is directed to the animal. At this time the animal appears inactive and the appetite is lost. In some cases excessive thirst is noted and the animal is seen to drink often. Occasionally the first symptom noted by the keeper is the roaring breathing, induced by mechanical obstruction in the upper air passages or narrowing of the larynx. Some cases present in the early states a catarrhal discharge from one or both nostrils, and swollen and weeping eyelids. There is rapid loss of flesh and distinct weakness, followed by diarrhoea. When these symptoms appear, the animal rarely lives more than two or three days. The rapidly enlarging necrotic swelling soon breaks through the mouth, leaving an ugly, purple, raw, ulcerating surface. The tissue surrounding the ulcer is swollen and congested. When the affection becomes generalized the lungs show a broncho-pneumonia and catarrhal gastro-enteritis.

Treatment of this disease has as yet been unsuccessful. The prevention consists of thorough sterilization of cages, preceded by burning of all contact litter. New animals should be quarantined for five weeks, and carefully observed for any signs of this disease before placing them on exhibition.

DEPARTMENT OF ADMINISTRATION

H. R. MITCHELL, Chief Clerk and Manager of Privileges;
WILLIAM MITCHELL, Cashier.

The appropriation granted by the City's Board of Estimate for the maintenance of the Zoological Park during 1924, (\$264,514.49), was again insufficient for its purpose. The Society approved our budget for the year on the basis of an additional grant of \$10,750 from their funds, bringing the total sum for maintenance for the year up to \$275,264.49. Notwithstanding our best efforts to get through the year on this figure, it was impossible to do so. By the first of September, it was evident that our shortage in fuel alone would consume nearly one-half the additional amount granted by the Society, and other accounts such as food and supplies would require the entire sum supplied by the Society.

Application was made on September 5th for the issue of \$4,600 of special revenue bonds to cover the shortage in the Fuel Account. This application was denied. The actual shortage in

the amount allowed by the City for the Fuel Account for the year was \$5,045.56, and the Maintenance shortage for the year, which had to be provided by the Society, reached a total of \$17,968.13.

For the year 1925, the Board of Estimate has granted the same amount as allowed in 1924—\$264,514.49. It will be impossible to maintain the Park throughout the year on even the sum expended in 1924. The advance in the cost of the fish item alone in the "Forage and Veterinary Supply Account" will, under present conditions, increase the deficit by several thousand dollars.

It is quite evident at this writing that the Society must be called upon for a contribution of not less than \$21,000 to augment the sum allowed by the City for the maintenance of the Park during the coming year.

The additional provisions which were made two years ago for parking space for automobiles of park visitors at entrances other than the Concourse have been extensively used, but are not by any means sufficient to take care of the constantly increasing demands for parking space on days when attendance is large. In fact, the number of persons reaching the Park by automobile has increased so greatly that the parking space at the Concourse does not provide sufficient accommodation on many days aside from Sundays and holidays, during the spring and fall seasons.

On Sundays and holidays in good weather several times as many machines as can be accommodated drive in and finding no parking space available are obliged to drive away without those occupying them viewing the collection.

This is an unfortunate situation, which we feel should be remedied. We recommend a careful study of the conditions; that records be made of the automobiles finding accommodations at our various entrances, and also of those that are obliged to leave because parking space cannot be found. We hope that some satisfactory conclusion can be reached, and that plans can be adopted that will relieve the situation.

There were no changes made in our system of accounts. During the year two new accounts were opened, as follows:

Sage Construction Account No. 2 was opened early in the year under "Special Fund" for the purpose of taking care of al-



THE GREAT WHITE EGRET: AMERICAN EGRET

This is the second largest bird of the order Herodines with white plumage; the great white heron being the first. For its plumage, this wonderful bird has been hunted to the point of near extermination. In the Park, they thrive and live for many years.

terations at the Aquarium. Funds for this account to the extent of \$32,272.21 were drawn from the Sage Endowment Fund by resolution of the Executive Committee, and the account was closed with the year.

In November, the *Arcturus Exploration Account* was opened under "Scientific and Research Fund." This account is for the purpose of handling the receipts and expenditures of the Arcturus Expedition to the Sargasso Sea, which will start early in 1925. Subscriptions to the extent of \$42,000 were received before the close of the year, and expenditures of slightly more than \$6,000 were made in connection with the purchase of scientific apparatus and supplies for the expedition.

The usual audit of our accounts will be made as soon as our books can be closed, and the auditors' certificate will appear in connection with the Treasurer's Reports.

Privileges: The net showing made in Privileges in 1924 was a source of some satisfaction to those responsible for their operation. Nearly all lines of business showed some recession, generally credited to the uncertainty during Presidential election years.

We were, however, able to show an increase of 15 per cent in profits over the previous season, a percentage more than double that shown in increased attendance, although the attendance for the year just closed was greater than any previous year. However, all these figures were considerably reduced by unfavorable weather conditions during May and September—generally two of our best months. The attendance for May fell off nearly 90,000 and for September nearly 100,000.

New Riding Animal Station: Plans for the construction of a suitable building and the tracks necessary for the operation of this Privilege, in a new location west of the Elephant House, received final approval during the first half of 1924, but construction work could not be commenced in time to make the completed installation available for any part of the season.

The general contract for the building, at \$12,785, was given to H. H. Vought & Company, who have previously constructed several buildings in the Park, with entire satisfaction to the Society.

Work commenced in July, and would have been completed



BAIRD TAPIR

America has the distinction of possessing all the different species of tapirs of the world except one—the Malayan, *Tapirus indicus*, of the East Indies. The Baird Tapir, *Tapirella bairdi*, is not nearly as well known as *Tapirus terrestris* of South and Central America, and it is exhibited for the first time in the Zoological Park, having arrived June 6, 1924.

before the end of the year, but for delay in getting a special tile that had been specified for the interior walls. The building was practically completed at the close of the year, except for some interior work that will go on during the winter, and be finished before the opening of next season.

The construction of the various tracks on which the riding animals will be operated is being done by Mr. Merkel's force, under his direction. Work commenced before the end of the year, but was closed down owing to cold weather. The completion of this work has been promised in time for the opening of the next season.

The building, which was designed by Mr. Frank M. Wright, Architect, 100 East 45th Street, New York City, is of an attractive design and has received favorable comment from all interested persons. The standard iron-spot faced brick to match our other Park buildings has been used. The entire job is being done with great care and attention to detail, and it is confidently expected that the finished building, both in construction and arrangement, will surpass any installation that has been provided elsewhere for riding animal purposes.

Rocking Stone Restaurant: The results from the operation of this Privilege during 1924 have shown a very considerable improvement over last season, credit for which must be given to the Steward and Headwaiter—Mr. Mazzi, who took charge early in the season of 1923.

A considerable number of repairs, improvements and replacements are needed in equipment at the Restaurant, some of which it is confidently hoped can be made during the coming year.

The building is very much in need of some repairs. The replacement of the old roof cannot be much longer deferred. When this replacement is made, it should be done in a permanent manner, by using slate, or copper shingles. Even if the repair in this manner must be carried over two years or more, it would be the most economical in the end. An appropriation for this purpose is recommended, and urged to be included in the Improvement and Repair Budget for 1925, since such a repair is a Building Maintenance charge.

Boating: The gross receipts of the Boating Privilege in 1924 were considerably above those in the previous year, but owing to

extensive repairs to our electric launches, that could no longer be delayed, and the increased cost of operation and maintenance of row-boats, the net results fell slightly below the previous year.

We wish to record here the death on May 28th, 1924, of William J. Kay, a faithful employee of this department for more than twenty years, who had been in charge of the Boating Privilege for a number of years. Mr. Kay's loyalty to the Zoological Society, the Park and to the business of which he was in charge was well known to his fellow employees, and was appreciated and acknowledged by his immediate superiors.

It is rather remarkable, and we believe worthy of note, that during the period that he was in charge there was not a single fatal or serious accident in connection with the boating.

Mr. Harry Keller, a helper in the Boating Department, was put in temporary charge for the remainder of the season, and Captain Purdy, a former foreman of our Boating Department, who was later for a number of years in charge of this Privilege in Central Park, was put in charge of management and operation of the electric launches.

General repairs to all equipment is being carried on during the winter. Although a carload of row-boats was added to our equipment at the beginning of the past season, it is not planned to add any new row-boat equipment during the coming year, as nothing will need to be discarded.

We have never been able to wash and clean row-boats satisfactorily on account of poor water pressure at the dock. In the operation of any first class boating business this is an important matter. During the season just closed, we installed for this purpose an electric pump, which takes its supply from the lake and gives sufficient force to clean boats quickly and thoroughly.

Boat House Restaurant: This Privilege made the least satisfactory showing of any in our various activities during the past season, although we were able to register some material improvement over 1923. We are endeavoring to maintain our standard of service at the Boat House as automobile traffic over the Boston Road from Pelham Parkway south increases, and hope to show an increased volume of business.

Soda Water: In this branch of the Privileges we feel that we had a very successful season, particularly in the matter of improved service, in which real improvements were made.

In the matter of net profits, sufficient gain was made to mark the year as a record to date in this department.

At the beginning of the season, Edward Quinn was given the position of Chief Dispenser, having entire charge of Soda Stand operation and service. This young man commenced service with us in the soda water branch of the privileges as a boy, and learned the business here. While quite young for the many responsibilities of this position, we felt that his honesty, energy and ability entitled him to the chance, and the season's results have justified his selection.

Gate Receipts: During the year 1924, receipts from paid admissions at the gates reached a total of \$17,780.20, as compared with \$17,290.30 in 1923; an increase of nearly \$500. Following the practice of several years past, the entire year's receipts were credited to the Improvement and Repair Account, and the sum of \$16,806 was expended for Emergency Repairs and Improvements, leaving a balance in the fund at the close of the year of \$1,342.26.

New Improvements: For the coming years, we have set for ourselves a continued program of improving service, but to carry it on there must be cooperation in the matter of approval for improvements and replacements in order to render adequate service to the ever increasing number of park visitors. This will require ample, up-to-date equipment and an efficient organization, sufficiently flexible to meet the requirements due to great variations in our number of our visitors, ranging from a few hundred on some days to as high as seventy-five thousand on crowded days.

Guide Book: Profits from the sale of the Guide Book during 1924 showed a substantial increase over the previous year. The eighteenth edition, of which 23,000 copies were printed in the mid-summer of 1923, while not entirely sold out at the close of 1924, was so far depleted as to make it necessary to have a new edition ready for sale early in the coming season. An order has been placed on this basis, and the work is going on during the winter months, with arrangements for delivery about May 1st.

It will be of interest to the members of the Society to know that, including the eighteenth edition of the Guide Book, sales of this popular publication have now reached a grand total of 321,000 copies. We hope to have a careful revision of the Guide

Book made before the twentieth edition is required, at which time entirely new illustrations should be supplied throughout.

Souvenir Books, Postals and Miscellaneous Publications: The total sales in this group of miscellaneous publications during the past year increased somewhat over 1923.

About the middle of the year nearly 1,500,000 new postal cards were received, and are being packaged and put on sale.

The second 10,000 edition of the "Wild Animal Stamp Primer" is being rapidly reduced, and a third edition will no doubt be required during the coming year. This little publication serves a useful purpose in developing that instinctive interest of nearly all children in animal life.

We have been able to make a slight increase in the volume of sales of the other publications classified under this heading.

Motor Chairs and Baby Carriages: Some progress can be reported in connection with the operation of this service. William Cully, a young man who has been in our employ for several years was in charge of the operation and up-keep of motor chairs and baby carriages, both of which are subject to very hard use. While at present the motor chairs are in such a state of development as to present many difficulties, Cully was able to keep up a fairly good percentage of operation. As a whole, this service is much needed, and is one that when properly operated will add much in point of comfort to the visit of those who require such service. A very helpful improvement to this service was the erection early in the year of a building for storage, shop and charging station.

DEPARTMENT OF FORESTRY AND CONSTRUCTION

HERMANN W. MERKEL, Chief Forester and Constructor; E. H. COSTAIN, Assistant Forester; FRED W. MINGST, Assistant Constructor; MICHAEL E. O'KEEFE, Head Gardener.

With no relief by special city appropriations for maintenance or replacements, this department suffered another year of inadequate funds and a force too small to maintain properly the buildings, fences, walks, lawns, trees, shrubs, etc. in the park. The very best that could be done was to keep the park fairly clean and presentable, to repair the most urgent items and again postpone a long list of the larger and more costly pieces of repair

work, making these, however, still more costly when they are finally done.

Again the Society provided an Improvement and Repair Fund with which some repairs were made, and some much needed improvements, while the Maintenance Fund provided by the city barely covered the routine work absolutely necessary to the safety of the visitors and exhibits. It was by no means adequate for the really serious repairs.

To enumerate all the items of routine work seems unnecessary; yet were they all listed they would present an astonishing array. All large institutions with many buildings and spacious grounds need a great deal of maintenance, but I believe that in a Zoological Park of the magnitude of ours, with the wear and tear and destruction caused by millions of visitors and thousands of animals, the ordinary maintenance items are easily tripled.

Though badly needed, no extensive walk repairs were made during the year because it was impossible to pay men or obtain materials without funds. It was necessary also to neglect to a certain extent the grounds and plantations, though the utmost possible was done to take care of such spots as Baird Court, the Italian Garden, the Marsh Garden and the planting on Audubon Court.

Of buildings and outdoor installations, we managed to take care of the small items of repair. At the Aquatic Bird House, for instance, the entire interior cage work was repaired and painted, as were also the ceiling, walls and railings. At the Antelope House, all of the outside fences were overhauled, scraped and painted, and all the interior woodwork was oiled or varnished. At the Rocking Stone Restaurant, all the upper rooms and halls were painted. Six deer shelters were repaired and painted, as well as all the fences facing the walks surrounding the Elk Ranges. Of the Buffalo, Yak, Eland and Ostrich Ranges, all of the posts were cleaned, red-leaded, and painted.

At the Yak House, the roof was recoated and the skylights repaired. At the Mammal House, the skylights and a few of the gutters and leaders were repaired. The entire exterior cages on the west side were overhauled and painted, as well as the interior of the building, and all of the outside woodwork. The Ostrich House received the same treatment. Two outside cages in the Mammal House were rebuilt on the east side being made suitable for the exhibition of Tropical Squirrels.



THE LECHWE WATERBUCK

The Society is exhibiting a male and female of this interesting and graceful species of *Cobus lechwe* (Gray). Its habitat is South Africa from Lake Ngami northward to Lake Mweru.

At the Lion House, all exterior iron work was put in shape and painted, and all of the woodwork, both inside and outside, was oiled or varnished. At the Large Bird House, the east side bird cages were repaired and painted, the outside sashes and frames were reglazed, and painted or varnished. At the Reptile House, all the interior woodwork, walls, feedrooms, all the cages in the lobby and the ornamental railing in the main hall were renovated. On the Jungle Walk, a heavy guard fence with a barbed wire overhang was erected for the entire length.

At the Nursery, twenty-nine tons of mangels, and cabbage, lettuce, green cornstalks, etc., were produced. Eggs to the extent of nearly twenty thousand, over seventeen hundred chicks, nearly a thousand rabbits and over a thousand rats and some guinea pigs were here raised for food, and the bedding plants for Baird Court and the Concourse, etc., were produced in the greenhouses.

IMPROVEMENT & REPAIRS

Of the Improvement & Repairs Fund, approximately \$14,000 was expended. The larger items wholly or partially paid for from this fund were as follows:

At the Primate House, the retaining wall to the basement entrance, as well as the stone posts, were taken down, rebuilt and reset. At the Eagle's Aviary, the great central cage received a watertight roof, both for shelter and shade, a feature which had been badly needed for many years. At the Nursery, the Baytree Storage House, which had been entirely too small for the storage of our collection of fine baytrees during the winter, was enlarged, doubling the capacity of the building. Twelve hundred feet of new fencing was built, and a great many repairs and replacements were also done. At the Antelope House, new concrete runways were built, replacing the old wooden ones that had become badly decayed, thus completing the entire series on a permanent basis.

New hot-water boilers were installed in the Aquatic Bird House, Antelope House, Lion House and the Boat House. New lockers and a partition were built in the new shop building.

The most urgent repairs were made to the guard rails throughout the park. In addition to these innumerable small

jobs, a sum of nearly \$1,500 was otherwise spent, including the services of one painter and three temporary firemen.

PRIVILEGE FUND

The rough grading for the new riding tracks for the privilege department was undertaken in the fall, but was stopped by winter weather, and, of course, is still incomplete.

SPECIAL BOND ISSUE FUND FOR REPAIRS

From this fund materials for a protective railing were purchased, and approximately twelve hundred feet of railing was built during the year. This work, as well as that of the Riding Track, will be finished early in the spring.

Of the most urgent work that remains undone, there must be mentioned the building of the fence along Bronx Park south, the replacing of portions of the walls of the Small Deer House, the replacing of most of our water pipes, the building of approximately one mile of railing along the east side of the river walk, and the finishing of this walk. The replacing of the roofs of the Reptile House, Rocking Stone Restaurant, Llama House and several of the smaller shelter barns, the reroofing of the upper deck and dome of the Elephant House and some work on the roof of the Lion House. It is imperative that funds be obtained before further deterioration calls for much greater funds.

Funds should also be obtained from a bond issue for improvements on the east side of the river, which tract is now used by hundreds of thousands of visitors annually. Additional walks and shelters should be built here, and the playground near the south end should be regraded and generally put into shape. In the near future, an auto road for the entire length of the recently acquired tract from West Farms to Bronxdale should be built (plans for which were made by me some time ago), to make the new area accessible.

The handling of the vast crowds by the police was not done as well as the previous year, largely because the Police Department sent men from outside precincts to the Park instead of as last year, men from the home precinct. These new men not only were not acquainted with the rules of the Park, but also were not able to give directions, but rather had to ask them. As might be

expected, strange men, not knowing what to do, do not take keen interest, and for that reason were not nearly as efficient as those sent during the previous year, when the policing was really excellent. An effort should be made to have the police department again send the home precinct men, though of course the real remedy would lie in a separate park police force.

DEPARTMENT OF PHOTOGRAPHY AND PUBLICATION

ELWIN R. SANBORN, Editor and Photographer; ANNIE NEWMAN, Assistant.

Photography: During the year 1924 the Society's collections of photographs were further augmented by the following series of negatives:

Mammals: Mountain zebra, adult and young; Pekin sika deer, American wapiti deer, Columbian black-tailed deer, Bactrian camel, dromedary, Indian rhinoceros, kudu, female; blessing-bok, male; lechwe antelope, Nubian giraffe, male, female, and young at various stages of development; aard-vark, Baird tapir, collared and white-lipped peccary, Red river hog, gray bush-pig, pigmy hippopotamus, seals and wallaroo.

Birds: Argus pheasant, megapode, peafowl—males, females and albino phase; an extensive series showing many idiosyncracies of strutting; Java peafowl, Upecaha rail, European spoon-bill, tricolor heron, cocoi heron, little blue heron, pileated heron, American egret, snowy egret, wood ibis, European glossy ibis, Guiana ibis, Indian black-headed ibis, Australian ibis, Eastern brown pelican, Californian brown pelican, American white pelican, European white pelican, Philippine pelican, Florida cormorants and nest; white-faced tree duck, black-bellied tree duck, gray-necked tree duck, Eyton tree duck, gannet, blue-faced booby, oyster catcher, Amazonian tiger bittern, gray-headed gallinule, frigate bird, laughing gull, Franklin gull, brown-headed gull and trumpeter swans.

Reptiles: Galapagos tortoise, wood tortoise, tegu, Gila monster, beaded lizard, blue-tongued lizard, anaconda, South American boa, rainbow boa, king snake, pine snake and chicken snakes.

Miscellaneous: Cedars overturned by heavy snowfall, and axis deer range, Bronx river and scenes along jungle walk after a heavy winter's storm; yards of wild swine showing what a destructive force the rooting ability of these animals can produce;



THE COCOI HERON

This graceful and beautiful heron is found in South America. One favorite locality is along the great Paraná River. When in full plumage it is one of the most striking members of its family.

methods of rat extermination—preparation of baits, etc.; a series of pictures recording a visit of Singer's midgets to the Park for illustrative purposes, the women delegates of the Democratic Convention, the Heads and Horns Donor's tablet, and several views of the interior of that building.

The following is a recapitulation of the photographic work in 1924:

New Negatives, Park and Aquarium.....	535
Prints for Publication.....	822
Prints for Miscellaneous Purposes.....	948
Prints for Index Albums.....	1,276
Enlargements	6
Lantern Slides	65
Total	3,652

PUBLICATIONS

Bulletins: The usual six numbers of the BULLETIN were issued, a volume of 156 pages and 148 illustrations. The more noteworthy contributions during the year included the second part of the Ascent of Mount Elgon, An Island in the Parana, by Herbert Friedman, African Forests, Bush and Buffaloes, by Cuthbert Christy, Mounted Groups in the Natal Museum, and several pertinent articles on game protection and extinction by Dr. Hornaday. Mr. Beebe's trip to the Galapagos Islands furnished several papers from the land of the giant tortoise, "Five Hours in the Galapagos" being the most important. Dr. Townsend, despite the chaotic state of the Aquarium, furnished enough material to make two interesting Aquarium numbers. Titles and indices for the BULLETIN are being set by the printers as rapidly as possible and will be printed and issued as speedily as is possible.

Annual Report: The Report for 1923 was issued as revised in 1922.

Zoologica: The chief contributions to this publication were a series of papers on the collections of the Galapagos trip. Numbers 4 to 16 inclusive of Volume V were completed and mailed during the year of 1924. Numbers 17, 18, 19 and 20 have been printed, and No. 21 is ready for issue, making a total of 256

pages and 62 figures and plates for this volume of the Galapagos series.

To Volume IV was added No. 2, "Frozen Siberian Mammoths," by Herbert Lang, a contribution of 28 pages and 11 figures. This also is completed and ready for mailing.

Volume VI has been started, and the work in preparation embraces the following papers:

No. 1. The Ecology of Kartabo; No. 2. The Variegated Tinamou—both by William Beebe; No. 3. The Membracidae of Kartabo—by Mrs. Haviland-Brindley, and No. 4. The Termites of Kartabo. Nos. 1, 2 and 3 are paged and ready for the press; No. 4 is in galley form.

The first three make a total of 280 pages and 28 figures and plates; No. 4 will make a paper of about 200 pages with 73 figures and plates. An increase for the year of over 650 pages and 164 plates to this publication.

Zoologica Index: The index and titles for Vol. III are now in galley form and will be printed and mailed early in March. An index for Vol. II was completed and mailed during 1924.

Mailing: This detail has been improved in the last year by new and modern machinery; a labor saving device of great importance. The usual amount of mail matter, 46,082 pieces, was handled and this will be greatly expedited in the future.

Membership: The index files of the list of membership are kept up with painstaking care. A check is maintained at all times by recapitulation cards showing every detail of all changes, and this is available at a moment's notice.

Index Albums: During the year over 1,000 new pictures were mounted in the albums. Index albums of the most modern type of the loose-leaf system have been obtained to replace the others which are being worn out by usage. These have been made of material as nearly indestructible as human minds can devise.

Index Scrap Albums: All data concerning the plates, cuts and dies is carefully recorded in these albums, and the possibility of finding any plates of the back numbers of the publications is a simple matter of going to a definite spot and finding what is required without delay.

Reserve Publications: A certain number of each issue of all publications issued by the Society is now laid aside, tied and sealed and stored away for future use. It was found a necessity to do this, especially with the BULLETIN; many early issues of this publication now being out of print and consequently unavailable. It is hoped by this Department to have a suitable storage place set aside this year so as to systematically file and preserve the great accumulation of valuable published material which the past 25 years have produced.

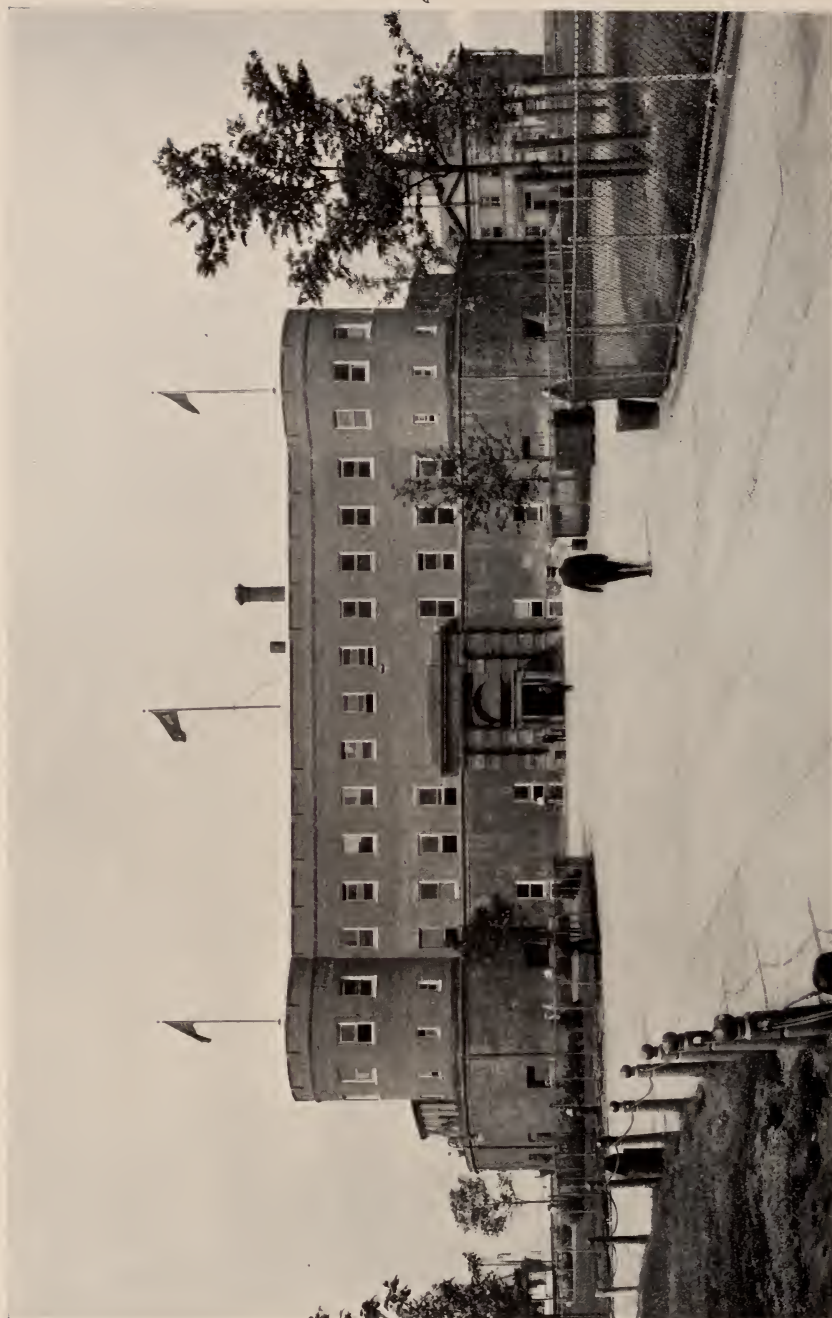
CONCLUSION

The conclusion of the present quite unsettled and agitated deterioration conditions in the Zoological Park is more than we can foresee. Today, our ceaseless struggle is to maintain what we have, and keep up appearances. Today we are in a shabby-genteel state, which must either be mended at once, or enter the calamity stage. We can exhibit 500 holes in our walks, but we can not explain 1,500. A roof can not leak for many months without going into the discard. If our big animals begin to break out through rusted wire fences, uncanny things will be said.

We have long asked for a decent pavilion at our dilapidated Fordham entrance; but in ten years we have not come within a thousand miles of getting it. All it will cost is \$50,000. Meanwhile we are asking of the City for enough special revenue bonds to keep the buildings and other features of our plant from deteriorating any farther than they already have.

I should say that from now henceforward our great struggle will be, not to improve the Zoological Park, and register progress, but to *prevent it from visibly running down!*

However, the animal collections of the Park are satisfactory. For them, no apologies are necessary. All we need do is to maintain their present excellence.



THE NEW YORK AQUARIUM

View showing the new third story added to the front of the building. All exterior walls will be finished with a uniform rusticated finish.

REPORT OF THE
DIRECTOR OF THE AQUARIUM

By CHARLES H. TOWNSEND

THE condition of the Aquarium at the close of the year cannot be described as satisfactory. The work of improvement of the building which was in progress in January continued until July when it was discontinued for lack of funds. During the first half of the year the third story erected at the front of the building, was completed as to walls, roof, stairway and windows. It still lacks all interior finish and remains unoccupied, being without plastering or flooring, and having no plumbing, heating or lighting equipment. The second story which was necessarily abandoned during the erection of the third story owing to the removal of its roof and exposure to the weather, is in the same condition, and remains out of service.

The first floor of this section of the building, which could not be abandoned even temporarily, was equipped for service at the expense of the Zoological Society. The delay in the completion of these structural improvements has served to delay also those proposed for the increase of exhibition space.

The administrative office of the Aquarium, which from force of circumstances was moved in September, 1923, to another building, is still maintained there at the expense of the Society. As a result of these conditions, together with the storage of the library in the attic and the abandonment of the laboratory, the administrative work of the Aquarium has been carried on with difficulty.

The living exhibits of the Aquarium have naturally suffered somewhat during the long-continued period of construction and alteration. The partial opening of the building at times during wintry weather caused some losses among the tropical collections, while the public was inconvenienced to an extent which served to reduce the attendance below the customary average.

It may be stated, however, that exhibits and public interest have both been maintained throughout a trying period, if they may be judged by an attendance of 1,795,075 visitors.

When the improvements already planned are completed,* the Aquarium now entering upon its twenty-ninth year, will be not only better equipped mechanically than heretofore, but will have increased space for exhibits.

Collections: The collections of the Aquarium at the close of the year number as follows:

	<i>Species</i>	<i>Specimens</i>
Fishes	114	2,936
Aquatic Reptiles.....	16	107
Amphibians	6	92
Birds	2	2
Mammals	1	1
Invertebrates	11	2,083
	<hr/>	<hr/>
	150	5,221

The total of specimens 5,221, is now below the average in number and variety as a result of construction and alteration work.

As previously stated the exhibits will be increased about twenty per cent when new tanks are installed in the space formerly occupied by pumps now located in the basement. The new electric pumping equipment provided by the Zoological Society continues to give effective and reliable service.

Fish Hatchery: This interesting exhibit has been kept up for many years through annual donations of fish eggs from Government hatcheries located in many parts of the country. Many thousands of brook, rainbow, brown, lake and Rocky Mountain trout were hatched and distributed in streams and lakes of the Palisades Interstate Park.

Water Birds: A penguin from the Galapagos Islands has lived and thrived in one of the large floor pools since July, 1923, and a brown pelican in another pool since July of the present year. Success with these sea birds which have here abundant swimming space and a plentiful supply of their natural live foods,

* Funds for this work were provided by the City in January, 1925.

leads to the conclusion that they are better adapted to indoor life than the large seals which formerly occupied the pools. Arrangements have been made for introducing cormorants, boobies, and other sea birds. It has been found practicable to use the pools at the same time for fishes of sizes too large to be disturbed by fish-eating birds.

While seals are not usually adapted to the restricted swimming space of such pools as can be constructed indoors, the California sea lion which occupies the very large central pool, seems to be the exception that proves the rule, having lived in the building seventeen years. Its weight when weighed in 1916, was 620 pounds. It is now much larger and probably could not enter the crate in which it was weighed. This animal was believed to be about four years old when received in 1907.

Specimens Presented to Other Institutions: Specimens of the horseshoe crab (*Limulus*) and sea turtle (*Caretta kempi*) were presented to the Aquarium of the Zoological Society of London. Specimens of *Limulus* were also presented to the Berlin and Hamburg aquariums.

At the request of the Consul General of Austria, specimens of dog shark (*Mustelus*), mudfish (*Amia calva*), large salamander (*Cryptobranchius alleganiensis*) and alligator (*Alligator mississippiensis*) were presented to Professor Biehl of the University of Vienna.

Exchanges of Specimens: Two exchanges were made with the Detroit Aquarium, whereby 1,318 specimens of fresh-water fishes, representing twenty-one species were brought to New York, as well as twenty-five fresh-water turtles.

An exchange with the Philadelphia Aquarium added fifty calico bass and fifteen axolotls to our collection.

At the request of the Bermuda Government, Mr. Mowbray of the Aquarium staff took a variety of food fishes from Florida to the Bermudas where they were previously unknown. Some of these fishes were brought to New York in return for the use of shipping tanks belonging to the Aquarium. The result of transplanting sea fishes to Bermuda has not yet been determined.

Work of the Collecting Boat: During the past summer the well-boat *Seahorse* made seventeen trips, usually of two days'

duration, to Sandy Hook Bay, and collected 1,636 specimens of fishes representing forty-seven species, and 370 specimens of invertebrates representing ten species. In addition to the collections made for exhibition and for exchange with other aquariums, the boat brought in quantities of fishes and invertebrates always needed as food. The Aquarium has profited greatly by the service of this boat, which has been in use for five seasons. The cost of maintenance in 1924 including that of specimens purchased from Sandy Hook fishermen was \$1,174.59.

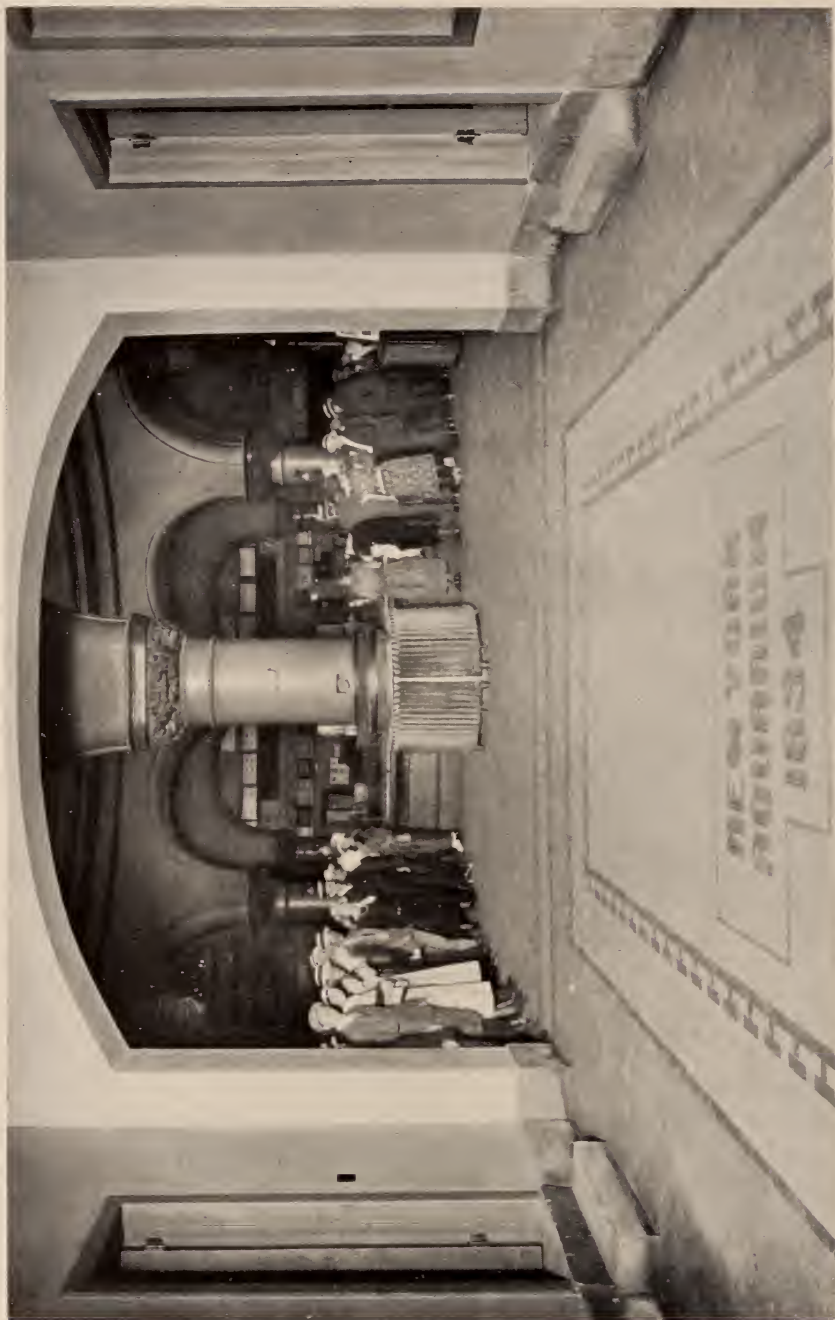
LIST OF FISHES SECURED AT SANDY HOOK BETWEEN JUNE 5, AND
NOVEMBER 7, BY THE WELL-BOAT *Seahorse*

Grayfish, *Mustelus canis*
Milbert's Shark, *Carcharhinus milberti*
Hammer-head Shark, *Sphyrna zygaena*
Sand Shark, *Carcharias littoralis*
Common Skate, *Raja erinacea*
Big Skate, *Raja ocellata*
Clear-nosed Skate, *Raja eglanteria*
Barndoor Skate, *Raja laevis*
Sting Ray, *Dasyatus centrura*
Cow-nosed Ray, *Rhinoptera bonasus*
Common Sturgeon, *Acipenser sturio*
Short-nosed Sturgeon, *Acipenser brevirostrum*
Menhaden, *Brevoortia tyrannus*
Eel, *Anguilla chrysypa*
Bass Killy, *Fundulus majalis*
Common Killy, *Fundulus heteroclitus*
Sheepshead Minnow, *Cyprinodon variegatus*
Billfish, *Tylosurus marinus*
Stickleback, *Gasterosteus bispinosus*
Pipefish, *Syngnathus fuscus*
Spearing, *Menidia menidia notata*
Mullet, *Mugil cephalus*
Striped Bass, *Roccus lineatus*
White Perch, *Morone americana*
Sea Bass, *Centropristes striatus*
Tripletail, *Lobotes surinamensis*
Pigfish, *Orthopristis striatus*
Porgy, *Stenotomus chrysops*
Pinfish, *Lagodon rhomboides*.

Weakfish, *Cynoscion regalis*.
Silver Perch, *Bairdiella chrysura*.
Spot, *Leiostomus xanthurus*.
Croaker, *Micropogon undulatus*.
Kingfish, *Menticirrhus saxatilis*.
Bluefish, *Pomatomus saltatrix*.
Crab-eater, *Rachycentron canadus*.
Rudder Fish, *Seriola zonata*.
Big-Eyed Scad, *Trachurops crumenophthalmus*.
Jack, *Caranx hippos*.
Yellow Mackerel, *Caranx chrysos*.
Threadfish, *Alectis ciliaris*.
Moonfish, *Vomer setipinnis*.
Silvery Moonfish, *Selene vomer*.
Pompano, *Trachinotus carolinus*.
Mackerel, *Scomber scombrus*.
Bergall, *Tautogolabrus adspersus*.
Tautog, *Tautoga onitis*.
Spadefish, *Chaetodipterus faber*.
Triggerfish, *Balistes carolinensis*.
Filefish, *Stephanolepis hispidus*.
Orange Filefish, *Alutera schoepfii*.
Smooth Puffer, *Lagocephalus laevigatus*.
Puffer, *Spheroides maculatus*.
Spiny Boxfish, *Chilomycterus schoepfii*.
Eighteen-spined Sculpin, *Myoxocephalus octodecimspinosus*.
Common Sea Robin, *Prionotus carolinus*.
Red-winged Sea Robin, *Prionotus evolans strigatus*.
Shark Sucker, *Echeneis naucrates*.
Toadfish, *Opsanus tau*.
Whiting, *Merluccius bilinearis*.
Tomcod, *Microgadus tomcod*.
Spotted Codling, *Phycis regius*.
Ling, *Phycis chuss*.
Fluke, *Paralichthys dentatus*.
Flounder, *Pseudopleuronectes americanus*.
Window-pane, *Lophopsetta maculata*.
Small-mouthed Flounder, *Etropus microstomus*.

Sixteen more species of local sea fishes were brought to the Aquarium this season than in 1923.

Aid to School Teachers:—This feature of the work of the Aquarium has been maintained for many years. It consists



ENTRANCE TO THE NEW YORK AQUARIUM

The old, narrow, entrance-corridor has been widened, admitting a greater volume of light and air and also permitting a freer movement of the incoming and outgoing crowds of visitors.

chiefly in supplying small forms of marine life for stocking the aquaria that many teachers of natural history keep in their classrooms. This material, consisting chiefly of small fishes, crustaceans and mollusks is sometimes provided in considerable quantities for class instruction. The total number of school children visiting the Aquarium in classes with their teachers during the year was 8,228, the number of teachers 271. While the collecting of marine material for schools is not difficult in summer when the Aquarium boat is in service the supply often runs short in winter. The Aquarium could provide it abundantly during that season if it had a collector located at some point in the South where it is always obtainable.

The Whitefish:—A single survivor now remains of the school of whitefishes (*Coregonus clupeaformis*) hatched in the Aquarium in 1913. Aside from their exhibition value these fishes were of great service in definitely settling the question as to whether a fish's age can be accurately read in its scales. The age of these whitefishes being known, regular studies of their scales from month to month, for a year proved beyond question that the age of a fish is registered in the rings upon its scales, as described in detail in paper No. 17 Zoologica Vol. II, *The Whitefishes*, by Mellen and Van Oosten.

Respiration of Sea Turtles:—Professor G. H. Parker, Director of the Zoological Laboratory at Harvard University, devoted many hours to the work of recording the time of submergence in the large sea turtles in the Aquarium, some of which have lived nearly twenty years in the building. None voluntarily remained submerged for more than an hour. A specimen of Kemp's turtle that was restrained under water for an hour and a half appeared to have died, but recovered on removal to the air. Apparently about an hour is the maximum period of successful voluntary submergence.

Publications Emanating from the Aquarium:—Mr. Breder, of the Aquarium staff, who accompanied the Marsh-Darien Expedition early in the year, prepared reports for the American Museum of Natural History on the results of natural history work pertaining thereto and also the following: *Respiration as a Factor in the Locomotion of Fishes* (American Naturalist, March-April, 1924), *Fish Notes from Sandy Hook Bay* (Copeia No. 127) and *List of Fishes, Amphibians and Reptiles collected in Ashe County, North Carolina*, Co-authorship with Ruth B.

Breder, (*Zoologica*, Vol. IV, No. 1). Miss Mellen prepared Information Circular No. 9 on The Construction of Small Aquaria. The circulars of this series are of constant service in the handling of the correspondence of the Aquarium. Calls for information relative to many forms of aquatic life are numerous. In the last three months of the year Miss Mellen replied to as many letters as are ordinarily received in six months.

At the request of the editor of *Natural History*, the director of the Aquarium contributed a lengthy article on the Northern Elephant Seal and the Guadalupe Fur Seal with three shorter articles, all of which appeared in the September number of that magazine.

Arrangements are being made for a new edition of the guide book, the edition of 1920, numbering 16,000 copies, being nearly exhausted. The next issue will be printed on a better quality of paper in order to improve the numerous illustrations.

An illustrated pamphlet relating to the care of small aquaria entitled *Fishes in the Home*, continues to be in demand, 4,700 copies having been sold since its issue in 1921. Other publications relating to the Aquarium and its exhibits are re-printed from time to time according to the demands of visitors.

Employees:—The total number of persons employed at the Aquarium during the year, and, in fact, during several years preceding 1924, was twenty-six or four less than in 1902, when the institution passed under the management of the Zoological Society. Since the latter date the exhibits, the office work and the attendance have all increased. The living exhibits, both local and tropical, are collected by the employees, dealers being unable to supply aquatic forms of life suitable for public aquariums. The employees also do much of the necessary repair work, including painting and plumbing. The Aquarium is decidedly under-manned, its elaborate pumping, filtering, water-heating and refrigerating equipment requiring attention day and night, in addition to the daily work of feeding and cleaning. The entire ceiling, walls and columns have been painted by the employees at a cost of little more than \$100 for paint.

Reservoir:—The reservoir of 100,000 gallons of stored seawater which has been in use since 1908, continues to furnish the marine forms of life in the Aquarium with a satisfactory supply of their natural element. Its circulation and filtration are in con-

stant operation. The moderate losses through evaporation and some leakage are repaired each summer by the addition of a few thousands of gallons brought from the open sea.

Heating of the Building:—The amount of coal used during the year for heating the building and warming sea water was 378 3-5 tons, the cost of which was \$5,199.20.

Budget for 1924:—The maintenance fund of the Aquarium for the past year was \$58,309.

Historical Studies Relative to the Tortoises of the Galapagos Islands:—Being aware that the logbooks of vessels formerly engaged in whaling, contained unpublished records concerning the giant tortoises of these islands, the Director of the Aquarium undertook the work of compiling and reporting upon them. With the approval of the Executive Committee he visited the public libraries and museums of New Bedford and Salem, Massachusetts, for the purpose of examining logbooks. Arrangements were made also for the examination of logs preserved at Nantucket.

According to the records of seventy-nine whaling vessels that visited the Galapagos Islands between 1831 and 1868, 13,000 tortoises were taken for food. As there were more than 700 whaleships in the American fleet during a part of this period, many of which visited the islands for the purpose of securing supplies of tortoises, the total number carried away must have been very great. The records at hand show not only the separate islands visited, but the numbers taken at each island. They contribute therefore much to our knowledge of the extermination of the species inhabiting the different islands.

Some of the records relate to Barrington Island, where tortoises have been extinct for more than sixty years. The greatest number taken by any one whaleship at a single island was 335.

A lengthy report on these studies has been prepared for publication by the Zoological Society.

ATTENDANCE AT THE NEW YORK AQUARIUM BY MONTHS, 1924

January	Visitors.....	72,159	Daily average.....	2,328
February	“	81,193	“ “	2,800
March	“	116,733	“ “	3,766
April	“	130,720	“ “	4,358

May	“	-----	157,608	“	“	-----	5,084
June	“	-----	207,576	“	“	-----	6,920
July	“	-----	268,278	“	“	-----	8,654
August	“	-----	276,467	“	“	-----	8,919
September	“	-----	183,292	“	“	-----	6,110
October	“	-----	139,064	“	“	-----	4,486
November	“	-----	94,560	“	“	-----	3,152
December	“	-----	67,425	“	“	-----	2,175
Total	“	-----	1,795,075	“	“	-----	4,905

During the twenty-eight years ending in December, the Aquarium had more than fifty-four millions of visitors.

Record of monthly mean temperatures and specific gravities of the water of New York harbor at the Battery in 1924.*

	<i>Temperature</i>	<i>Specific Gravity</i>
January	44°	1.011
February	39°	1.014
March	39°	1.013
April	44°	1.009
May	51°	1.008
June	58°	1.013
July	67°	1.014
August	69°	1.016
September	67°	1.016
October	61°	1.014
November	56°	1.015
December	46°	1.014

* From daily observations made at the New York Aquarium by Mr. A. H. Clendening. Specific gravity observations made with samples of water brought to 60° Fahrenheit.

A TABLE OF INFORMATION

REGARDING THE LARGE AQUARIUMS OF THE WORLD

By IDA M. MELLEN

IT HAS been growing more and more evident of recent years that, with the increasing desire to build public aquariums throughout the world, more specific and detailed information is needed regarding those already in existence.*

For the benefit of all concerned, therefore, a questionnaire was prepared and sent out after approval by the Director, during the summer of 1924, and the accompanying table has been compiled from the information received in this way. Suggestions were invited, which resulted in the addition of a few questions to the original number.

It has been difficult to determine in what order to place the aquariums of the world in this table. By coincidence it happens that the first public aquarium of which we have any record was opened in the London Zoological Gardens in 1853, and that the last to be built is likewise in London, though it was opened only two months later than the aquarium in New Orleans. Were we to arrange existing aquariums chronologically in accordance with the year in which they were opened, we should begin with Blackpool, England, 1871. But the majority have sprung into existence since 1900.

Should age precede beauty, or should size, the number of exhibits, unique features, or popularity, take precedence?

Frankly, we do not know which is the most beautiful within or without; as to size, those of Philadelphia, London and New York are in the lead. For popularity, New York holds first

* A concrete illustration of this need is seen in the following circumstance: A gentleman who called during the summer of 1924 to discuss plans for a public aquarium in a small eastern city with a population of about 100,000, presented a diagram of one section of the proposed building. On completing the diagram, it was found that the building would be of a size about equal to that of the New York Aquarium—and the expectation was that it could be operated with a single employe!

place, and it is also the oldest in the United States. The palm for number of exhibits goes to San Francisco, unless we count the occupants of Frankfurt's and Berlin's insectariums, or of New York's or Chicago's hatcheries.

The most unique are Frankfurt with fifty-seven and Berlin with sixty-six tanks devoted to insects (including larvae of mosquitoes, gnats, beetles, etc.). Naples with its world-famed exhibit of beautiful marine invertebrates, Honolulu with its equally famed gorgeous tropical fishes, San Francisco with a tropical swamp, and Berlin displaying thirty tanks supplied with artificial sea water, with which no success has ever been attained elsewhere.

Rio de Janeiro is at present the only city boasting two aquariums, although Chicago is reputed to be planning a second one to cost over \$2,000,000 and be over 300 feet long.

The most costly building is set down as that of Philadelphia, although several others are reconstructed from buildings erected for some other purpose and their cost cannot be fully estimated.

The Steinhart Aquarium in San Francisco, recently built and therefore advantaging by the mistakes of others, is modestly pronounced by its director as "the most satisfactory."

Taking these various facts into consideration, the best course in arranging the table has seemed to be to group the institutions alphabetically under countries, and the aquariums represented in the accompanying table are therefore grouped in alphabetical order under United States and Territory, South America, and Europe.

A beautiful exhibit existed spasmodically for a few years at Miami Beach, Florida, but has gone out of existence indefinitely.

The following are among American cities which cherish hopes of building a public aquarium: Wichita, Kansas; San Diego, California; Madison, Wisconsin, Milwaukee, Wisconsin, St. Louis, Missouri and Cleveland, Ohio.

Small aquariums not included in the table exist at Augusta, Maine; Woods Hole, Massachusetts; Port Erin, Isle of Man; Halle Salle, Germany, and elsewhere.

Aquariums formerly existed at Venice, California; Varna, Bulgaria; upon the Island of Majorca; at Sidney and Melbourne, Australia; Piraeus near Athens, Greece; Trieste, Austria; Stibington Hall, Northamptonshire, England; Brussels, Breslau,

Cologne and Dublin, and some of these may now be in existence, though we have no recent news of them. The Japanese Consulate's office informs us that the aquarium at Tokyo is no longer in existence.

Although the project of gathering this information was received with interest by most of the aquariums addressed, the questionnaires forwarded to aquariums at Madras in India, Gezira in Egypt, Blackpool and Brighton in England, and Hamburg in Germany, were not returned, though twice solicited, and these institutions are reluctantly omitted from the table, excepting for Brighton and Blackpool, the data concerning these aquariums being kindly supplied by Dr. Boulenger, of the London Aquarium, from notes made when lately visiting them.

When the first draft of the table was complete, a copy was sent to each institution represented, that final corrections might be made and the information of each made to conform with that of the others; but despite this careful effort to avoid errors, strict accuracy cannot be vouched for.

Because of the necessary omission of aquariums failing to respond, and for other reasons, the table must be regarded merely as a beginning toward this sort of correlation of aquarium statistics.

The aquariums represented are twenty-four, as follows:

UNITED STATES AND TERRITORY

Boston, Massachusetts	New Orleans, Louisiana
Chicago, Illinois	New York City, New York
Detroit, Michigan	Philadelphia, Pennsylvania
Honolulu, Hawaii	San Francisco, California
Washington, D. C.	

SOUTH AMERICA

Rio de Janeiro, Brazil (2)

EUROPE

Amsterdam, Netherland	Leipzig, Germany
Antwerp, Belgium	Lisbon, Portugal
Berlin, Germany	London, England
Blackpool, England	Monaco
Brighton, England	Naples, Italy
Frankfurt, Germany	Paris, France
Plymouth, England	

A TABLE OF INFORMATION REGARDING THE AQUARIUMS OF THE WORLD (In 1924)

Compiled by IDA M. MELLEN of the New York Aquarium

UNITED STATES AND TERRITORY										SOUTH AMERICA	
City	Boston, Mass.	Chicago, Ill.	Detroit, Mich.	Honolulu, Hawaii	New Orleans, La.	New York City, N. Y.	Philadelphia, Pa.	San Francisco, Calif.	Washington, D. C.	Rio de Janeiro, Brazil	Rio de Janeiro, Brazil
Institution	Boston Aquarium	Lincoln Park Aquarium	Belle Isle Aquarium	Honolulu Aquarium	Odenheimer Aquarium	New York Aquarium	Fairmount Park Aquarium	Steinhart Aquarium	Aquarium, U. S. Bureau of Fisheries	Passoio Publico Aquarium	Quinta dn Boa Vista Aquarium
Presiding Officer	Walter H. Chute	Floyd S. Young	John E. Timmons	F. A. Potter	H. J. Neale	Chas. H. Townsend	William E. Meehan	Barton W. Evermann	L. G. Harron	Carlos Moreira	Carlos Moreira
When opened	November, 1912	May 31, 1923	1904	March 17, 1904	February 3, 1924	December 10, 1896	Nov. 24, 1922 complete*	Sept. 29, 1923	1905	1905	1910
Owned by	City	State of Illinois	City	Territory of Hawaii	City	City	City	City	United States Government	City Municipality	City Municipality
Controlled by	Park Commission	Lincoln Park Comm'rs.	Dept. Parks & Blvds.	University of Hawaii	Audubon Park Comm'rs	N. Y. Zoological Soc'y.	Fairmount Park Comm'n	Calif. Academy of Science	U. S. Bureau of Fisheries	City Municipality	City Municipality
Shape of Building	L-shaped		Grotto style	Cross-shaped	Circular	Circular		Installed in office building, (first floor)			
Size of Building	150' x 100'	75' x 150'	240' x 74'	100' x 24' long, + 80' x 24'	50' diameter	205' diameter	320'	116' x 182'			
Cost to build	\$150,000	\$250,000	\$175,000	\$15,000	\$60,000	Reconstructed Fort	Reconstructed (\$500,000 ?)	\$305,257.42			
Annual Maintenance Cost	\$40,000	\$35,000	\$19,000	\$7,500	\$6,000	\$58,000	\$30,453	\$40,000			
Exhibition Tanks	62	48	56	32	15	89	114	58	29	22	28
Capacity of Tanks	45 to 1,500 gallons	25 to 2,000 gallons	200 to 1,200 gallons	12,000 gallons	1,560 gallons each	310 to 4,590 gallons	125 to 15,000 gallons	1,280 to 1,400 gallons	70 to 700 gallons	2,000 to 4,500 liters	2,500 to 5,300 liters
Pools	1	1	4	2	1	7	1	5 and 1 swamp	1		
Capacity of Pools	4,500 gallons		3,000 gallons each	25,000 gallons	9,000 gallons	15,000 to 73,000 g.	12,000 gallons	2,800 to 82,000 gallons	13,000 gallons		
Reserve Tanks	31	16	26	4	3	29	35	14	None		
Total capacity Reserve Tanks	6,500 gallons	4,000 gallons	5,200 gallons		5,000 gallons	7,596 gallons					
Reservoirs	2	4	2	2	2	1	3	5 and 4 cisterns	2	6	1
Capacity of Reservoirs	128,000 g. total	1,200 gallons total	25,000 gallons each	14,000 gallons	20,000 gallons each	100,000 gallons	70,000 gallons	10,000 to 100,000 g.	12,500 total	58,000 liters	20,000 liters
Linear feet Glass permanent wall Tanks	165	160	280	180	75	455	511	308	143		
Linear feet Glass floor Tanks	80	135	48			50	136	None	8		
Gallons Water in Tanks, Salt	17,400	None	20,000	24,000		100,000	45,500	33,040		49,000 liters	
Gallons Water in Tanks, Fresh	15,600	60,000	30,000	1,000	27,400	100,000	50,000	30,600	12,000		
Gallons used daily, Salt	90,200	None	45,000	40,000		214,000	500,000	30,000		Continuous flow	No salt water
Gallons used daily, Fresh	100,700	30,000	50,000			150,000		30,000	120,000	No fresh water	
Number of Exhibits (1924)	1,064		2,593	306	514	4,713	2,749	7,896		238	305
Fishes	1,003	78 varieties	2,500	300	500	4,000	2,438	7,515	2,000	210	270
Mammals	4	0	5	0	0	1	0	10		0	0
Reptiles	16	36	50	2	5	100	31	100		3	15
Amphibians	16	30	38	0	6	60	279	15		0	0
Invertebrates	25	18	0	0	3	550	1	264		25	20
Birds	0	0	0	0	0	2	0	2		0	0
Open every day	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Except Sundays and holidays	Except Mondays	Except Fridays
Between what hours	10 to 5	9 to 5	9 to 5	10 to 5 (Sun. 1 to 5)	10 to 5 or 6	9 to 4 or 5	9 to 5	10 to 5	9 to 4:30	10 to 6	10 to 6
Entrance fee	None	None	None	Yes	No	None	None	None	None	Yes	Yes
Visitors a Day	718	4,800	4,380	80	3,571	5,000	1,000	4,040	No record	310	
Visitors a Year	261,912		1,600,000	30,000		2,000,000	400,000	1,470,705	No record	112,000	100,000
Persons employed	17	14	6 (and 4 part time)	4	2	26	19	14 and 4 part time		4	2
In what capacity	Director Matron 7 Engineers 1 Engineer, part time 1 Mechanic 6 Attendants		Director 2 Aquarists 7 Attendants		(Additional for emergency)	Director and 4 officers 1 matron 1 telephone operator 3 engineers 3 firemen 13 attendants		Director 3 engineers Supt. 2 janitors Asst. Supt. Doorman Aquarist Relief man Collector 3 feeders and attendants Carpenter			
Cards, Specimens, Pamphlets	No	No	No	Post-card Folder	Yes	All three	No	Plan selling cards	No	No	No
Balanced Aquarium	18	58	16	None	Yes	None since 1921	None	57	2	Yes	
Total capacity	300 gallons		250 gallons			42 planned: 500 gallons		1,100 gallons	150 gallons		
Water Systems	4 — Fresh Fresh-refrigerated Salt Salt-heated	2 — Fresh-refrigerated Fresh-heated	4 — Fresh Fresh-heated Fresh-refrigerated Salt-heated	Direct from ocean	2 — Fresh Salt	6 — Fresh Fresh-refrigerated Fresh-heated Harbor (brackish) Harbor-heated Pure salt-heated	3 — Fresh Fresh-heated Salt-heated (Plan fresh and salt refrigeration)	5 — Fresh Fresh-heated Fresh-refrigerated Salt Salt-heated	City supply	Salt water (natural temperature)	Fresh water (direct or filtered)
Fish Hatchery	Yes	Yes	Yes		Yes	Yes		Yes	For exhibition only	No	No
Salt or Fresh Water	Fresh water	Fresh water	Fresh water		Fresh	Both		Fresh water	Fresh water		
Number Fry hatched annually	5,000	35,000,000	10,000			Average 1,000,000		No record yet	5,000,000		
Disposition of same	Exhibition and public waters	State waters	Aquarium and public waters		Aquarium and Park Lakes	Local public waters	* Tropical house opened June 15, 1915.	To parties in state	Distributed		

E U R O P E													
City	Amsterdam, Netherland	Antwerp, Belgium	Berlin, Germany	Blackpool, England	Brighton, England	Frankfurt, Germany	Leipzig, Germany	Lisbon, Portugal	London, England	Monaco	Naples, Italy	Paris, France	Plymouth, England
Institution	Amsterdam Aquarium	Antwerp Aquarium	Berliner Aquarium	Blackpool Aquarium	Brighton Aquarium	Frankfurter Aquarium	Leipzig Aquarium	Aquario Vasco da Gama	London Aquarium	Monaco Aquarium	Naples Aquarium	Trocadero Aquarium	Plymouth Aquarium
Presiding Officer	C. Kerbert	M. L'hoest	O. Heinroth	M. R. Johnston	George W. Weller	Kurt Priemel	Dr. Gebbing	A. Ramalho	E. C. Boulenger	Jules Richard	R. Dohrn	Mr. Grandjean	E. J. Allen
When opened	1882	June, 1911	August 18, 1913	1871	1872	1872	1872	1898	April 7, 1924	1905	1874	1878	1888
Owned by	Koninklyk Zoologisch Genootschap Natura Artis Magistra	R. Z. S. of Antwerp	Cons. Ass'n Zoo'l Gdns		Brighton Corporation	Zoological Garden		Portuguese State	Zoo'l Soc'y of London	Foundation Prince Albert I.	A Corporation	City of Paris	Marine Biological Ass'n
Controlled by		R. Z. S. Board Directors	Cons. Ass'n Zoo'l Gdns			Zoological Garden	Dr. Gebbing	Portuguese State	Zoo'l Soc'y of London	Council of Administration			Director Marine Biol. Ass'n
Shape of Building	L-shaped	Modern style	Grotto style		715' long x 100' wide		Oblong		Crescentic	Rustic	Grotto style	Grotto style	34½' x 70' Exhibition Room
Size of Building	2735 M² (square meters)	70 x 18 meters	13 x 35 meters				40 m. long, 20 m. deep; 10 m. high		450' long			Gardens & Grot 21,600 Sq. Ft.	
Cost to build	\$200,000	1,200,000 Belgian francs	\$250,000		£ 120,000		20,000 Marks	\$6,300	\$275,000		1,000,000 gold francs	80,000 francs	
Annual Maintenance Cost	20,000 florins	85,000 Belgian francs	125,000 marks	50	50	91	100 (67 aquaria, 33 terraria)	96	£ 6,500	39 to 42	220,000 lire	24	12
Exhibition Tanks	23	22	100 (20 artificial sea water)				.30 m. to 3.50 m.		90		26		
Capacity of Tanks	61,000 to 85,000 liters	170.20 cubic meters	10 liters to 170 tons	24,000 gallons	Up to 110,000 gallons	3	2	34 cubic meters	40,000 gallons total	60 liters to 3 cubic meters	300 tons	5,300 to 21,200 gallons	21,800 gallons
Pools		5					4 m. to 12 m.	8	1	3	None	None	5
Capacity of Pools		85 Cubic m. or tons		None	None	8	6	36 cubic meters	1,000 gallons	16	None		780 gallons
Reserve Tanks	13	12						4	9				14 (private)
Total capacity Reserve Tanks							15 cubic meters total	12 cubic meters total	4,200 gallons				
Reservoirs	24.48 M³ (cubic meters)	32.25 cubic meters	500 tons fresh and salt	1	1	2	5	5	3	1	3	General canalization of Paris	2
Capacity of Reservoirs	564,000 liters	140 cubic meters	500 tons	25,000 gallons salt	500,000 gallons, direct from sea	74 cubic meters	150 cubic meters	276 cubic meters	180,000 gallons	14 cubic meters	350 tons		50,000 gallons each
Linear feet Glass permanent wall Tanks	50.50 M² (square meters)	35.112 square meters					1 to 2.50 m. broad; 1 to 2 m. high	124 meters	500	50 meters	57	380	137½
Linear feet Glass floor Tanks	27. M²						The same, and 1 to 2 m. deep					0	
Gallons Water in Tanks, Salt	98,000 liters	80 cubic meters or tons	About 20 tons		200,000 gallons		60 cubic meters	24 cubic meters	20,000 gallons				21,400 gallons
Gallons Water in Tanks, Fresh	76,000 liters	60 cubic meters or tons	About 80 tons		75,000 gallons		100 cubic meters	10 cubic meters	20,000 gallons	No fresh water		5,300 to 21,200 gallons (River water only)	1,000 gallons
Gallons used daily, Salt	77,000 liters	35 cubic meters or tons	About 120 tons	25,000 gallons		15 cubic meters	20 cubic meters	130 cubic meters	50,000 gallons	8 to 10 cubic meters			50,000 gallons
Gallons used daily, Fresh	32,000 liters	25 cubic meters or tons	About 100 tons	15,000 gallons			50 cubic meters	2 cubic meters	30,000 gallons			200,000 to 265,000 g.	
Number of Exhibits (1924)		1813	4,160			1,253 plus invertebrates	Varying		3,580			3,000	
Fishes	192 varieties	1,813	2,000			780	Yes	50 species	2,000	80 to 90 species		3,000	1,350
Mammals	0		0			3	Yes	0 species	0	0		0	0
Reptiles	0		300			254	Yes	3 species	25	3		0	0
Amphibians	11 varieties		160			166	Yes	10 species	25	0		0	0
Invertebrates	27 varieties		2,000			(several thousand in season)	Yes	20 species	1,500	70 to 100 species		0	0
Birds	0		0			0	No	0 species	0	0		0	0
Open every day	Yes	Yes	Yes	Yes, except Sundays	Yes, except Sundays	Yes	Yes	Yes	Except Christmas Day	Yes	Yes	Except Mondays	Except Sundays
Between what hours	9 to 6	8-9 to 4-6:30	9-6 or 7 (1 hr. longer Sundays)			7 till dark	7 a. m. to 7 p. m.	11 a. m. to sunset	From 11 a. m.	10 to 12: 2 to 4 or 5	8 to 6	10 to 5	10 to 6
Entrance fee	Yes	Yes	Yes		Yes	Yes	1 Mark for Zoo and Aquarium	Yes, except schools	Yes	Yes	Yes	Free	Yes
Visitors a Day	1,200 summer, 50 winter		200 winters, 2,200 (other times)			298 plus schools and subscribers	Varying	60 (Sundays 500)	2,000				
Visitors a Year	140,000	850,000	225,000 plus schools			106,945 plus schools and subscribers	350,000	46,874		90,000	50,000	200,000	21,300
Persons employed	4	4	20		8	5 (including Insect House and Hospital)	3	14	10	7	6	6	
In what capacity	Director Inspector 2 keepers	Director 2 keepers 1 stoker	Custodian Inspector Secretary 2 engineers 8 attendants 3 cleaning women 4 ticket-takers				Director 2 Warders	President, Engineer Director, Treasurer Assistant, Preparateur 3 guards, 4 fishermen Ass't Engineer	Director Overseer Engineer 4 keepers 3 stokers	Director 2 attendants 2 collectors 2 young assistants			
Cards, Specimens, Pamphlets	No	Album, card folder	Guides, cards				Post-cards	Cards and specimens	Guides	Guides, text books, pictures	Guides, specimens, cards	No	Guides, specimens, apparatus
Balanced Aquaria	12 to 16	49	30 (also 85 terraria and 66 insectaria)			48 (also 57 insectaria)			None	6 to 20	None		
Total capacity	6,100 liters	9 cubic meters											
Water Systems	4 — Fresh Fresh-heated Salt Salt-heated	4 — Fresh Fresh-heated Salt Salt-heated	4 — Fresh Fresh-heated Salt-artificial Salt-heated	2 — Fresh-refrigerated Salt-refrigerated	2 — Fresh-heated Sea water	2 — Fresh Fresh-heated	2 — Heated Refrigerated	Continual circulation, filtered	4 — Fresh Fresh-heated Salt Salt-heated	Use only natural sea water unfiltered		Fresh	2 — Fresh Salt
Fish Hatchery	Yes		No				Yes (2 rooms)	No, but connected with Fishery Bureau	No	No		Yes	
Salt or Fresh Water	Fresh water						Fresh water					Fresh	
Number Fry hatched annually												300,000 to 500,000 chiefly trout	
Disposition of same												Special establishment near Fontainebleau	

REPORT OF THE DIRECTOR DEPARTMENT OF TROPICAL RESEARCH

By WILLIAM BEEBE, Director

ALFRED EMERSON, Assistant Director; JOHN TEE-VAN, Research Assistant and Cinematographer; WILLIAM MERRIAM, Assistant in Field Work; HAROLD TAPPIN, Assistant in Entomology; HERMAN ROGERS, Assistant in Photography; HARRY HOFFMAN, Artist; ISABEL COOPER, Scientific Artist; HELEN TEE-VAN, Assistant Scientific Artist; RUTH ROSE, Historian and Technician; KATHERINE ROGERS, Assistant in Arachnology; SERGE CHETYRKIN, Preparator.

THE year 1924 has been a most important one to the Department of Tropical Research, both in the completion of one of its greatest undertakings and the initiation of another.

On February 11, the director, with a staff of eleven, sailed from New York on the steamer *Mayaro* for the research station at Kartabo, this being the Eighth Expedition of the Zoological Society. Here work was carried on for the entire season, the party remaining until July 4. When we left, a class of eight graduate students from the University of Pittsburgh took possession and pursued their studies for the succeeding two months.

All my efforts during the present season were concentrated on the rounding out and completion of the six years of intensive ecological work in the quarter square mile of jungle about Kartabo. The first installment of this will be published by the Zoological Society as a volume of *Zoologica* early in 1925. This will be followed by other exhaustive and important faunal papers by members of the staff.

Outstanding researches this year were made on the fauna of jungle rain-water holes, fallen trees and the more important scavengers. The method of shooting a line over a high limb by means of a bow and arrow was successful in enabling us to reach the tops of the jungle trees. Many new nests and eggs, such as those of the pompadour cotinga, and new species of frogs and fishes were taken, the limited area under investigation proving as prolific of new facts and forms of life as ever.

It is particularly fortunate that during the absence from Kartabo during the next few years of the Director and the staff of the Zoological Society, the Station can be occupied and utilized by successive classes of graduate students from the University of Pittsburgh. These will be in charge of Prof. Alfred Emerson and of Prof. H. D. Fish.

Almost immediately upon my arrival in New York in late July, plans were formulated for a most elaborate deep sea oceanographic expedition. A large steamer, renamed the *Arcturus*, was presented by Henry D. Whiton, and the finances were guaranteed by Harrison Williams, with the assistance of Marshall Field, Vincent Astor, Clarence Dillon, George Baker, Jr., and others.

This will be the Ninth Expedition of the Department of Tropical Research and will start about February 1, for a cruise of six months, with the object of investigating the Sargasso Sea and the Humboldt Current.

The volume of the narrative of the Seventh Expedition "Galapagos; World's End" published by G. P. Putnam's Sons under the auspices of the Zoological Society has had a phenomenal sale, being classed among the first ten best sellers for seven consecutive months.

The following gratifyingly large number of publications have appeared during the year:

CONTRIBUTIONS OF 1924

151—The Williams Galapagos Expedition

William Beebe

Zoologica. Vol. V, No. 1

152—Galapagos Heterocera.

W. Schaus

Zoologica. Vol. V, No. 2

153—Notes on Galapagos Lepidoptera

William Beebe

Zoologica. Vol. V, No. 3

154—Ichthyology of the Galapagos

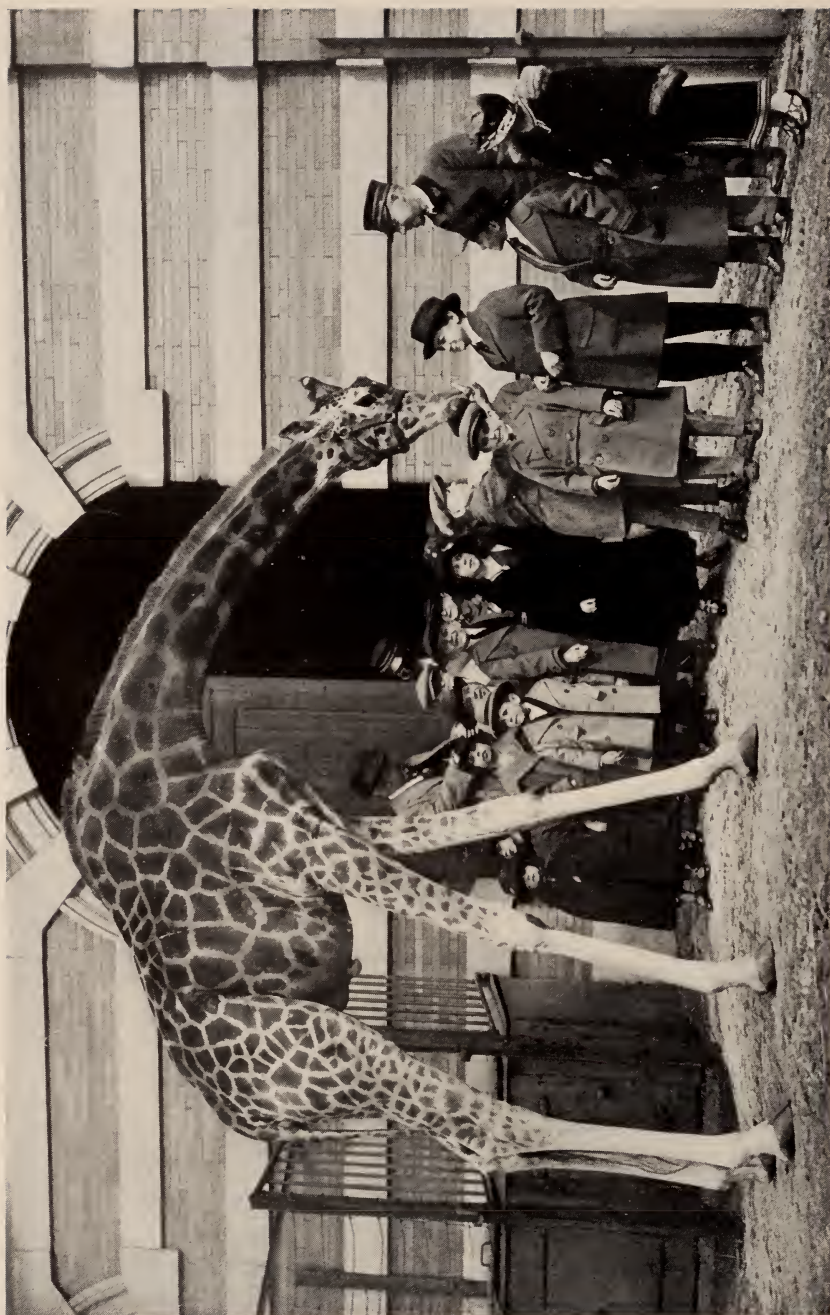
J. T. Nichols

Zoologica. Vol. V, Nos. 4-16

- 155—Galapagos Apterygota
J. W. Folsom
Zoologica. Vol. V, Nos. 4-16
- 156—Galapagos Homoptera
Herbert Osborn
Zoologica. Vol. V, Nos. 4-16
- 157—Galapagos Mallophaga
H. E. Ewing
Zoologica. Vol. V, Nos. 4-16
- 158—Galapagos Diptera
Charles W. Johnson
Zoologica. Vol. V, Nos. 4-16
- 159—Galapagos Arachnida
Nathan Banks
Zoologica. Vol. V, Nos. 4-16
- 160—Galapagos Formicidae
William Morten Wheeler
Zoologica. Vol. V, Nos. 4-16
- 161—Galapagos Triungulin Larvae
Charles T. Brues
Zoologica. Vol. V, Nos. 4-16
- 162—Jacking for Yapocks
William Beebe
Bulletin Zool. Soc., Vol. XXVI, No. 6, November, 1923.
- 163—Five Hours in the Galapagos
William Beebe
Bulletin Zool. Soc., Vol. XXVII, No. 1
- 164—Pets and Super-pets
Ruth Rose
Bulletin Zool. Soc., Vol. XXVII, No. 1
- 165—Galapagos Chilopods
Ralph V. Chamberlin
Zoologica. Vol. V, Nos. IV-XVI
- 166—Galapagos Coccidae
Harold Morrison
Zoologica. Vol. V, Nos. IV-XVI

- 167—Galapagos Brachyura
Mary T. Rathbun
Zoologica. Vol. V, Nos. 4-16
- 168—Galapagos Macrura and Anomura
Waldo L. Schmitt
Zoologica. Vol. V, Nos. 4-16
- 169—Galapagos Hymenoptera
S. A. Rohwer
Zoologica. Vol. V, Nos. 4-16
- 170—The Habitat of the Crocodilia of British Guiana
Albert M. Reese
Ecology. Vol. IV, No. 2, April, 1923
- 171—Notes on the Crocodilia of British Guiana
Albert M. Reese
Bulletin W. Va. Univ. Science Assn. Vol. 11, No. 1, April, 1923
- 172—The Osteology of the Tegu, *Tupinambis nigropunctatus*
Albert M. Reese
Journ. of Morph. Vol. XXXVIII, No. 1, September, 1923
- 173—Wild Animal Painting in the Jungle
Isabel Cooper
Atlantic Monthly, June, p. 792
- 174—Annual Report Trop. Research Station
William Beebe
Annual Report, N. Y. Zool. Soc., 1923
- 175—Neotropical Mayflies
James G. Neeham and Helen E. Murphy
Bulletin of the Lloyd Library, No. 24, 1924
- 176—Three New Pemphredonine Wasps
S. A. Rohwer
Jour. Washington Acad. Science, Vol. XIII, October, 1923
- 177—The Canoes of British Guiana
Maud D. Brindley
The Mariner's Mirror, Vol. 10, No. 2, April, 1924
- 178—Wings and Tusks at Kartabo
Ruth Rose
Asia, October, p. 776

- 179—Rarest of Nests on Tallest of Trees
William Beebe
Bulletin Zool. Soc., Vol. XXVII, No. 5
- 180—Exhibit of the Tropical Research Station at Wembly
William Beebe
Bulletin Zool. Soc., Vol. XXVII, No. 5
- 181—A Giant Armadillo at Last
William Beebe
Bulletin Zool. Soc., Vol. XXVII, No. 5
- 182—Kartabo Notes
Ruth Rose
Bulletin Zool. Soc., Vol. XXVII, No. 5
- 183—Galapagos Neuroptera
Nathan Banks
Zoologica. Vol. V, No. 17
- 184—Galapagos Isopoda
Willard G. Van Name
Zoologica. Vol. V, No. 18
- 185—Galapagos Parasitic Copepods
Charles B. Wilson
Zoologica. Vol. V, No. 19
- 186—Galapagos Coleoptera
Andrew J. Mutchler
Zoologica. Vol. V, No. 20
- 187—Parasitic Fungi of Guiana
Frank L. Stevens
Illinois Biological Monograph. Vol. VIII, July, 1923



THE SMALLER MEMBERS OF THE THEATRE VISIT THE PARK

Many followers of the stage find in the Park much of interest as well as a place of relaxation from the cares of their profession; among them these tiny people who paid us an enthusiastic visit during the summer.

REPORT OF THE PENSION BOARD

TO THE BOARD OF MANAGERS

THE Pension Board, under the chairmanship of Lewis Rutherford Morris, held its meeting at the office of Cornelius R. Agnew, Treasurer, throughout the year. In addition to the above, William Osgood Field, Dr. George Bird Grinnell, Dr. W. Reid Blair, Dr. Charles H. Townsend, William Redmond Cross, H. R. Mitchell and Hermann W. Merkel, Secretary, composed the Board.

The first decade of the existence of the Pension Board and Fund was completed during the year 1924, since it was on August 1, 1914, that the Pension Plan was first put into effect. At that time the Fund consisted of the \$100,000 donated by Andrew Carnegie for the purpose of establishing a Pension Plan, and at the end of 1914 showed a balance applicable to the payment of pensions of \$4,180.27. At the end of 1924, the treasury balance available for pensions was \$111,546.52.

During this time there was paid out for pensions the sum of \$23,272.73; for refunds to employees leaving the service, \$6,-272.98, and for clerical services, doctors' examinations and for all other expenses \$4,998.05, leaving a treasury balance for pension payments at the end of 1924 of \$111,546.52. From this it may be seen that the first ten years of operation of the Pension Plan have been highly successful. And while it may be expected that the drain upon the accumulated funds for the coming ten years will be very much greater than before, pension payments actually would have to triple before any inroads would be made on the accumulated funds, as the Annual Income from the payment of dues, and all other sources amounts to \$17,174.06 yearly.

From the above it appears that at the present rate of pension payments the safety of the Fund is probably assured for a number of years to come. On the other hand, there can be no question that these pensions are totally inadequate for the sup-

port of the pensioner, the average pension during the year 1924 being \$27.22 per month.

It is sincerely hoped that a way may be found by which future pensions can be increased.

For the last year, the interest on the accumulated fund was still in excess of the amount paid out in pensions, so that the gain in the Fund available for pensions for the year from dues, etc., amounted to \$10,922.24, which is greater by \$527.03 than the increase of the Fund during the previous year. There was paid out on pensions during the year \$4,573.71; refunds of dues, insurance benefits, clerical services, etc., bringing the total expenditures up to \$6,251.82 as against \$6,011.01 for the previous year.

Two widow's pensions were granted during the year to Mrs. Mary McCabe and Mrs. Minnie Mildenberger, and two widows' pensions were discontinued, Mrs. Moranville and Mrs. Spicer; the first because the term for which the pension was granted, under the rules, had expired, and the second on account of remarriage. One pensioner, Joseph Liebel died at the age of 82, having benefitted by his pension for only six months.

These changes caused a reduction in the monthly pension roll at the end of the year of \$40.74.

Two members of the Pension Fund died during the year, namely, William Mucha of the New York Zoological Park and Lillian Bannon of the Aquarium. Both were employees of the New York Zoological Society with long records of faithful service.

Two new members joined the Fund, while there were six resignations during the year, calling for a refund paid in dues to the extent of \$472.15. The Pension Fund, on the other hand, was relieved of seventeen years and ten months of accumulated service. The Board believes that some effort should be made to obtain additional funds for the Pension Endowment Account so that pensions may be raised to a figure more adequate for the support of the pensioners.

Respectfully submitted,

LEWIS RUTHERFORD MORRIS,
Chairman, Pension Board.

HERMANN W. MERKEL,
Secretary, Pension Board.



THE GREAT WHITE PELICAN OF EUROPE

These huge immaculate birds form an interesting part of the exhibit of water birds in the Flying-Cage. After the mid-day feeding they assemble along the edges of the pool and stretch their huge wings for dry out.

FINANCIAL SUMMARY

The financial administration of the Zoological Society is under the Treasurer, the Executive Committee and the Finance Committee.

The *City Funds* are derived under the vote of the Board of Estimate and Apportionment, from the City of New York, as follows:

City Zoological Park Building Fund
 Zoological Park Maintenance Fund
 Aquarium Maintenance Fund
 City Aquarium Building Fund

The total appropriation by the City for these purposes during the year 1924 was \$327,760.21, which was expended as accounted for in this Report.

The *Zoological Society Funds* are divided into:

(1) The "Endowment Funds," including:

General Endowment Fund.....	now totaling	\$576,198.90
Sage Endowment Fund.....	" "	616,033.29
Rockefeller Fund	" "	500,000.00
George F. Baker Endowment Fund....	" "	100,000.00
Cadwalader Endowment Fund.....	" "	20,000.00
Florence Lydig Sturgis Fund.....	" "	10,000.00
Stokes Bird Endowment Fund.....	" "	5,056.46
Carnegie Pension Endowment Fund....	" "	100,066.25

(The above amounts are as of December 31, 1924)

(2) "Special Funds," including gifts from year to year from members and friends of the Society, which are divided into accounts as follows:

Animal Account, for 1924, derived from special endowment gifts and receipts of privileges.....	\$19,374.95
Art Gallery Account, for the purchase of Animal Paintings	\$ 2,250.00

The Society's funds and gifts also include:

(3) The Park and Aquarium building accounts, derived either from gate receipts, special contributions or from its endowment. The expenditures from these building accounts for the past year were as follows:

Sage Construction Account.....	\$32,272.21
Zoological Park Improvement and Repair Account, derived by authority from Gate Receipts.....	\$16,806.00

and (4) The "Scientific Research and Publication Fund" divided as follows:

1924 EXPENDITURES ON EXPLORATION AND PUBLICATION

Publication Account	\$12,809.13
Tropical Research Station Account.....	14,017.88
Arcturus Exploration Account.....	6,106.36
Library Account	1,937.68
Heads and Horns Collection Account.....	942.34

This financial summary shows that during the year 1924 from endowment, from contributions and from publication funds the Society has expended a grand total of \$170,340.71. For the continuation of this work, of such great public benefit in the Park and Aquarium, and of such great scientific and literary value in its publications, the Society requires the immediate addition of \$2,000,000 to its general endowment and the constant attention of its members and friends for the needs of its Library, of its Heads and Horns Collection, of its Publications, of its Animal Painting Gallery, etc.

Communications and contributions to the Endowment Fund or Building Fund should be addressed either to the

Secretary of the New York Zoological Society, 101 Park Avenue, or to the

Treasurer of the New York Zoological Society, care Farmers' Loan and Trust Company, 20-22 William Street.

The form of gift or bequest is printed on page IX of this report.

ON ACCOUNT OF THE DEVELOPMENT AND MAINTENANCE OF THE ZOOLOGICAL PARK AND THE AQUARIUM, INCLUDING THE PURCHASE OF COLLECTIONS AND ALSO FOR THE SCIENTIFIC AND GENERAL PURPOSES OF THE SOCIETY.

Year	EXPENDED BY THE CITY OF NEW YORK			FROM GATE RECEIPTS		EXPENDED BY THE NEW YORK ZOOLOGICAL SOCIETY									
	Zoological Park Maintenance	Aquarium Maintenance	Bond Issues a/c—Park and Aquarium	Construction and Repairs	Purchase of Animals	Zoological Park Development	Aquarium Improvements	Zoological Park Maintenance	Aquarium Maintenance	Purchase of Animals	Aquarium Specimens	Heads and Horns Collection	Pension Fund Contribution	Library and Paintings	Scientific and General Purposes
1896						\$ 4,213.63									
1897						6,424.61									\$ 2,903.74
1898						23,597.80		\$ 1,292.16							4,339.20
1899	\$ 30,000.00					145,495.80		7,038.61		\$ 8,540.72				\$ 102.76	3,476.02
1900	40,000.00		\$125,000.00		\$ 2,470.88	34,626.24		6,189.33		3,784.32				88.13	5,601.78
1901	65,000.00		300,000.00		2,998.80	18,348.61		3,714.37		11,652.24				462.20	7,597.16
1902	85,000.00	\$ 5,959.97	250,000.00		4,256.50	5,908.69		2,757.57		20,983.07				224.73	11,068.69
1903	104,965.00	46,453.68	280,000.00		5,912.95	1,038.20				20,361.62				456.03	13,608.10
1904	104,965.00	46,439.72	315,000.00		5,421.90	1,013.87		1,894.37		14,299.61				887.16	15,072.84
1905	134,965.00	44,968.50	275,000.00		6,849.00	144.00				20,643.40				418.10	18,773.90
1906	144,965.00	44,987.71	250,000.00		8,132.35	778.48				14,907.36				319.16	17,961.67
1907	141,558.75	44,183.87	100,000.00		8,248.65	370.72				10,606.03		\$ 892.71		644.05	15,999.68
1908	154,627.00	44,157.27	65,000.00		9,446.40	232.27				4,231.61		735.77		1,313.87	14,693.92
1909	162,325.00	45,971.44	10,000.00		9,992.75	2,860.92				9,734.43		7,340.82		609.56	17,168.95
1910	167,632.00	45,974.86	89,500.00		9,909.90	5,918.35				4,339.25	\$ 973.90	2,036.39		1,021.87	20,627.77
1911	174,632.00	47,560.21	155,000.00		11,611.15	1,155.00				6,659.89	1,191.80	1,615.38		1,221.26	23,409.39
1912	182,365.00	46,597.08			11,838.40	40.00				22,750.18	1,350.03	556.94		1,031.55	32,109.01
1913	191,925.00	47,335.62	29,100.00		12,404.25	218.45				10,665.57	1,850.25	486.00		732.97	32,543.88
1914	200,000.00	46,995.53		\$ 9,237.81	3,831.15	2,175.13				22,590.44	1,792.99	338.73	\$3,333.33	3,541.15	28,246.42
1915	200,000.00	46,991.66	21,425.00	9,175.86		887.88				13,629.41	1,466.64	1,024.91	8,000.00	4,181.24	31,398.08
1916	197,074.35	46,996.43		9,599.81		425.30				13,511.12	2,193.57	1,031.47	8,000.00	1,555.12	38,339.99
1917	199,560.00	46,903.61		3,488.31	7,118.90	1,450.05		11,537.79		10,175.70	1,637.15	18.12	8,000.00	2,869.20	44,262.48
1918	207,586.00	48,630.71		2,642.70		48.12		1,580.00	\$ 93.61	8,425.92	960.19	18.61	8,000.00	3,559.85	34,125.49
1919	190,000.00	45,000.00		4,917.84			\$ 3,450.00	19,924.00	407.07	13,345.59	1,028.05	88.27	8,000.00	1,442.07	45,599.71
1920	250,098.27	53,971.48	15,000.00	17,438.28		5,007.00	4,095.03	5,141.92		32,761.08	1,654.02	263.86	8,000.00	2,517.64	51,018.20

CLASSIFIED SUMMARY OF EXPENDITURES FOR THE YEAR 1924, NEW YORK ZOOLOGICAL SOCIETY

	PARK MAINTENANCE		AQUARIUM MAINTENANCE		NEW YORK ZOOLOGICAL SOCIETY FUNDS						GRAND TOTAL	
	From City Funds		From City Funds		Special Funds		General Income Fund		Scientific & Research		Salaries	Other Items
	Salaries	Other Items	Salaries	Other Items	Salaries	Other Items	Salaries	Other Items	Salaries	Other Items		
Zoological Park: Maintenance by the City												
Administration.....	\$28,001.15										\$28,001.15	
Care of Buildings and Collections.....	86,312.10										86,312.10	
Care of Grounds.....	79,724.61										79,724.61	
Supplies.....		\$51,207.57										\$51,207.57
Equipment.....		3,873.48										3,873.48
Materials.....		7,174.60										7,174.60
Miscellaneous and Contingencies.....		4,428.35										4,428.35
Construction of Machinery Shed.....		5,828.30										5,828.30
Construction and Repair (Gate Receipts).....					\$10,972.27	\$ 5,833.73					10,972.27	5,833.73
Contributions by the Society												
Maintenance.....							\$23,859.19	\$13,194.29			23,859.19	13,194.29
Administration.....							15,139.41	12,549.13			15,139.41	12,549.13
Purchase of Animals.....						11,560.62						11,560.62
Scientific Purposes.....									\$15,790.32	\$19,080.73	15,790.32	19,080.73
Heads and Horns Collection.....									600.00	342.34	600.00	342.34
Insurance.....								2,830.99				2,830.99
Membership Expenses.....								7,000.29				7,000.29
Pension Contributions.....						4,335.00		3,665.00				8,000.00
Paintings.....						1.09						1.09
Miscellaneous Expenditures.....						250.00	819.96	5,036.26			819.96	5,286.26
Aquarium: Maintenance by the City												
Construction of additional Story.....			\$46,606.90	\$10,712.30							46,606.90	10,712.30
				11,765.30		32,272.21						44,037.51
Contributions by the Society												
Aquarium Specimens.....								2,013.88				2,013.88
Totals	\$194,037.86	\$72,512.30	\$46,606.90	\$22,477.60	\$10,972.27	\$54,252.65	\$39,818.56	\$46,289.84	\$16,390.32	\$19,423.07	\$307,825.91	\$214,955.46
Totals by Funds	\$266,550.16		\$69,084.50		\$65,224.92		\$86,108.40		\$35,813.39		\$522,781.37	

STATEMENT OF FUNDS PROVIDED BY THE VARIOUS CITY ADMINISTRATIONS FOR THE DEVELOPMENT AND MAINTENANCE OF THE ZOOLOGICAL PARK AND AQUARIUM

FROM THE ORGANIZATION OF THE SOCIETY TO THE PRESENT

1896 to 1925

MAYOR	COMPTROLLER	Year	MAINTENANCE		CORPORATE STOCK ISSUES	
			Park	Aquarium	Park	Aquarium
Robert A. Van Wyck 1898-1901	Bird S. Coler 1898-1901	1899	\$30,000.00	.....	.....	.....
		1900	40,000.00	.....	\$125,000.00	.....
		1901	65,000.00	.....	300,000.00	.....
		1902	85,000.00	\$ 5,959.97	250,000.00	.....
Seth Low 1902-1903	E. M. Grout 1902-1903	1903	104,965.00	46,453.68	250,000.00	\$30,000.00
		1904	104,965.00	46,439.72	275,000.00	40,000.00
G. B. McClellan 1904-1909	E. M. Grout 1904-1906 Herman A. Metz 1907-1909	1905	134,965.00	44,968.50	275,000.00	.....
		1906	144,965.00	44,987.71	250,000.00	.....
		1907	141,558.75	44,183.87	100,000.00	.....
		1908	154,627.00	44,157.27	65,000.00	.....
		1909	162,325.00	45,971.44	10,000.00	.....
		1910	167,632.00	45,974.86	89,500.00	.....
W. J. Gaynor 1910-1913 Ardolph L. Kline 1913	W. A. Prendergast 1910-1913	1911	174,632.00	47,560.21	155,000.00	.....
		1912	182,365.00	46,597.08	.....	.....
		1913	191,925.00	47,335.62	.....	29,100.00
		1914	200,000.00	46,995.53	.....	.....
J. P. Mitchel 1914-1917	W. A. Prendergast 1914-1917	1915	200,000.00	46,991.66	21,425.00	.....
		1916	197,074.35	46,996.43	.....	.....
		1917	199,560.00	46,903.61	.....	.....
		1918	207,586.00	48,630.71	.....	.....
J. F. Hylan 1918 to date	C. L. Craig 1918 to date	1919	190,000.00	45,000.00	.....	.....
		1920	250,098.27	53,971.48	15,000.00	.....
		1921	276,951.01	65,203.12	.....	.....
		1922	264,618.05	63,341.26	.....	25,000.00
		1923	264,515.00	59,226.00	.....	86,000.00
		1924	264,514.49	58,309.00	.....	7,970.00
		1925	264,514.49	58,334.00	.....	.....
Totals		\$4,664,356.41	\$1,150,492.73	\$2,180,925.00	\$218,070.00	

Note: The appropriations for each year are granted by the Board of Estimate the previous year.

Treasurer's Reports

FOR THE YEAR ENDING DECEMBER 31, 1924

CORNELIUS R. AGNEW, *Treasurer*
22 William Street
New York City

GROUP I

Maintenance Fund

ZOOLOGICAL PARK ACCOUNT

INCOME

Received from the City of New York on account of Park Maintenance Appropriation of \$264,514.49 for the year	\$257,906.11	
Due from the City on Account of Park Maintenance Appropriation	4,564.90	
Unexpended balances reverting to the City.....	2,043.48	\$264,514.49
Deficit payable by the New York Zoological Society Shortage in City Maintenance Appropriation for 1924		17,965.65
		<u>\$282,480.14</u>

EXPENDITURES

Personal Service:

General administration	\$28,121.95	
Maintenance of buildings and care of collections.	89,479.24	
Maintenance and care of grounds.....	79,917.01	\$197,518.20

Supplies:

Food for animals	\$32,658.02	
Fuel	24,002.64	
Fuel oil	42.92	
Office supplies	563.88	
Stationery and printing	1,032.62	
Drugs and medicines	128.62	
Medical and surgical supplies.....	45.82	
Disinfectants	190.14	
Janitors' supplies	201.72	
Motor vehicle supplies	599.72	
Ice	112.00	
Lubricating oil	28.71	
Nursery stock and seeds.....	95.70	
Miscellaneous supplies	1,894.24	61,596.75

GROUP I.

Maintenance Fund*Equipment:*

Uniforms and wearing apparel.....	\$2,496.80	
Office equipment	74.54	
Motor vehicles and equipment.....	299.26	
Awnings and shades.....	164.75	
Janitors' equipment	385.26	
Painters' equipment	85.37	
Rubber hose	173.40	
Tools and machinery.....	334.02	
Miscellaneous equipment	356.88	\$4,370.28

Materials:

Motor vehicle materials.....	\$174.64	
Bolts, nails and hardware.....	436.38	
Electrical materials	28.20	
Fencing and netting.....	1,041.13	
Furnace materials	1,045.88	
Glaziers' materials	240.22	
Lumber	1,566.29	
Paints and oils.....	1,424.82	
Plumbing materials	1,016.83	
Sand, cement and brick.....	356.50	
Steel and iron.....	420.19	
Miscellaneous materials	1,045.03	8,796.11

Contract or Open Order Service:

Apparatus and machinery repairs.....	\$73.40	
Harness and vehicle repairs.....	67.00	
Painting labels	146.25	
Plumbing repairs	1,806.00	
Sanitary service	130.00	
Miscellaneous repairs	412.10	
Motor vehicle repairs.....	89.11	
Electric service	3,759.04	
Gas service	53.88	
Telephone service	1,229.30	
Expressage and deliveries.....	151.74	7,917.82

Contingencies:

Medical attendance, employees.....	\$121.00	
Miscellaneous expenses	116.50	237.50
Total expenditures		\$280,436.66
Unexpended balances reverting to the City.....		2,043.48
		\$282,480.14

GROUP I.

Maintenance Fund
AQUARIUM ACCOUNT

INCOME

Received from the City of New York on account of Aquarium Maintenance Appropriation (\$58,309) for the year		\$55,468.66
Due from the City on account of Aquarium Maintenance Appropriation	\$1,459.21	
Due from the City, pending transfer between codes.....	391.33	
Unexpended balances reverting to the City.....	989.80	2,840.34
		<hr/>
		\$58,309.00

EXPENDITURES

Salaries and Wages.....	\$46,606.90
Forage and Veterinary Supplies.....	2,306.90
Fuel Supplies	5,199.20
Office Supplies	125.70
Laundry, Cleaning and Disinfecting Supplies.....	116.24
Refrigeration Supplies.....	104.92
General Plant Supplies.....	195.71
Wearing Apparel	128.00
Office Equipment	100.00
General Plant Equipment.....	824.00
General Plant Materials.....	614.90
Repairs and Replacements.....	420.33
Expressage and Cartage.....	260.48
Telephone Service	215.92
Contingencies	100.00
	<hr/>
Total expenditures	\$57,319.20
Unexpended balances reverting to the City.....	989.80
	<hr/>
	\$58,309.00

AQUARIUM ACCOUNT (1922)

The request to the Board of Estimate for transfer of balances between Codes in the 1922 Aquarium Maintenance Appropriation having been denied, the deficit of \$4,149.66 as shown in the explanatory paragraph following Aquarium Statement for 1922, was ordered paid by the Society and charged to the Income Account on April 9, 1924.

M. C. FENSTEMAKER, *Clerk*, January 1, 1925

GROUP II

Endowment Fund

GENERAL ENDOWMENT ACCOUNT

Funds as of December 31, 1923:

Cash in bank.....	\$3,434.50	
Investments at cost.....	506,909.40	\$510,343.90
		<hr/>

RECEIPTS

Estate of Mary Clark Thompson.....	\$50,000.00	
Edwin Gould	10,000.00	
Mrs. Ethel R. Thayer.....	2,000.00	
Estate of Charles E. Rhinelander.....	1,000.00	
Other subscriptions	855.00	
Life memberships	2,000.00	65,855.00
		<hr/>
		\$576,198.90

EXPENDITURES

No expenditures during 1924

Funds as of December 31, 1924:

Investments at cost (for details see list of securities)	\$572,284.40	
Uninvested balance	3,914.50	\$576,198.90
		<hr/>
		\$576,198.90

SAGE ENDOWMENT ACCOUNT

Funds as of December 31, 1923:

Cash in bank.....	\$7,321.06	
Investments at acquired values.....	598,832.19	\$606,153.25
		<hr/>

RECEIPTS

Estate of Margaret Olivia Sage:		
Cash	\$12,280.00	
26 Shares General Electric Co., Common Stock...	27,720.00	\$40,000.00
		<hr/>
Profit on sales of bonds bequeathed.....		1,522.25
General Electric Co. stock dividend.....		630.00
		<hr/>
		\$648,305.50

EXPENDITURES

Sage Construction Account No. 2 (transfer).....		32,272.21
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Funds as of December 31, 1924:

Investments at cost (for details see list of securities)	\$613,976.65	
Uninvested balance	2,056.64	616,033.29
		<hr/>
		\$648,305.50

GROUP II.

Endowment Fund

ROCKEFELLER ENDOWMENT ACCOUNT

Funds as of December 31, 1923:

Cash in bank.....	\$662.50	
Investments at cost.....	499,337.50	\$500,000.00
	<hr/>	

EXPENDITURES

No expenditures during 1924.

Funds as of December 31, 1924:

Investments at cost (for details see list of securities)	\$499,337.50	
Cash in bank	662.50	\$500,000.00
	<hr/>	

GEORGE F. BAKER ENDOWMENT ACCOUNT

Funds as of December 31, 1923:

Cash in bank	\$87.75	
Investments at cost.....	99,912.25	\$100,000.00
	<hr/>	

Funds as of December 31, 1924:

Investments at cost (for details see list of securities)	\$99,912.25	
Uninvested balance	87.75	\$100,000.00
	<hr/>	

GROUP III

Special Endowment Fund

CADWALADER ANIMAL ENDOWMENT ACCOUNT

Funds as of December 31, 1923:

Cash in bank	\$3,296.58	
Investments at cost	20,000.00	\$23,296.58
	<hr/>	

RECEIPTS

Interest on investments.....	1,000.00	
	<hr/>	
		\$24,296.58

EXPENDITURES

No expenditures during 1924

Funds as of December 31, 1924:

Investments at cost (for details see list of securities)	\$20,000.00	
Uninvested balance	4,296.58	\$24,296.58
	<hr/>	
		\$24,296.58

FLORENCE LYDIG STURGIS ACCOUNT

Funds as of December 31, 1923:

Cash in bank	\$10,000.00
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RECEIPTS

Interest on investments.....	401.81	
	<hr/>	
		\$10,401.81

EXPENDITURES

No expenditures during 1924

Funds as of December 31, 1924:

Investments at cost (for details see list of securities)	\$9,987.50	
Uninvested balance	414.31	\$10,401.81
	<hr/>	
		\$10,401.81

GROUP III.

Special Endowment Fund

STOKES BIRD ENDOWMENT ACCOUNT

Funds as of December 31, 1923:

Cash in bank	\$708.54	
Investments at cost	5,056.46	\$5,765.00

RECEIPTS

Interest on investments.....	\$200.00	
		\$5,965.00

EXPENDITURES

Preservation of bird life.....	\$250.00	
--------------------------------	----------	--

Funds as of December 31, 1924:

Investments at cost (for details see list of securities)	\$5,056.46	
Uninvested balance	658.54	5,715.00
		\$5,965.00

CARNEGIE PENSION ENDOWMENT ACCOUNT

Funds as of December 31, 1923:

Investments at cost	\$100,066.25
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Funds as of December 31, 1924:

Investments at cost (for details see list of securities)	\$100,066.25
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GROUP IV

Special Fund

ANIMAL ACCOUNT

Unexpended balance as of December 31, 1923:

Cash in bank	\$14,278.43	
Cash on hand	100.00	\$14,378.43

RECEIPTS

Receipts from park:

Privilege Department (1924 receipts).....	\$15,000.00	
Sale of animals	4,357.60	
Checking	16.35	
Miscellaneous receipts	1.00	\$19,374.95

EXPENDITURES

Purchase of animals:

Mammals	\$4,836.50	
Birds	4,967.25	
Reptiles	997.79	
Insects	48.75	\$10,850.29

Express and other charges.....	\$435.06	
Traveling and other expenses.....	275.27	710.33

Unexpended balance as of December 31, 1924:

Cash on hand	\$100.00	
Cash in bank	22,092.76	\$22,192.76
		\$33,753.38

GROUP IV.

Special Fund

ART GALLERY ACCOUNT

Unexpended balance as of December 31, 1923.....		\$38.67
C. F. Dieterich	\$250.00	
Cleveland H. Dodge	250.00	
Arthur A. Fowler	250.00	
Edward S. Harkness	250.00	
Anthony R. Kuser	250.00	
Ogden Mills	250.00	
Mortimer L. Schiff	250.00	
Frank K. Sturgis	250.00	
Irving K. Taylor	250.00	2,250.00
		<hr/>
		\$2,288.67
EXPENDITURES		
Miscellaneous expenses		\$1.09
Unexpended balance as of December 31, 1924.....		2,287.58
		<hr/>
		\$2,288.67

SAGE CONSTRUCTION ACCOUNT NO. 2

RECEIPTS

Sage Endowment Account (transfer)	\$32,272.21
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EXPENDITURES

Aquarium Alterations	\$28,233.45	
General Income Fund (transfer)	4,038.76	\$32,272.21
	<hr/>	

IMPROVEMENT AND REPAIR ACCOUNT

Unexpended balance as of December 31, 1923.....	\$364.06
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RECEIPTS

Gate receipts	17,784.20
	<hr/>
	\$18,148.26

EXPENDITURES

Baytree House	\$900.53	
Boiler repairs	4,149.81	
Fence repairs	2,250.00	
Guard rails	521.37	
New shop accessories	620.96	
Painting fences, etc.	1,474.55	
Turnstiles for entrances	1,750.00	
Watchmen (extra men)	1,178.77	
Miscellaneous repairs	3,960.01	\$16,806.00
	<hr/>	
Unexpended balance as of December 31, 1924.....		1,342.26
		<hr/>
		\$18,148.26

GROUP V

General Income Fund

Unexpended balance as of December 31, 1923.....		\$18,327.39
RECEIPTS		
Income from General Endowment	\$25,613.74	
Income from Sage Endowment	34,020.00	
Income from Rockefeller Endowment	24,410.00	
Income from Baker Endowment	5,000.00	
Interest on bank balances	601.89	89,645.91
	<hr/>	
Annual dues	\$22,480.00	
Sustaining Memberships	160.00	22,640.00
	<hr/>	
Mrs. Grace Rainey Rogers	\$1,000.00	
American Museum of Natural History	400.00	
Edward H. Squibb, M.D.....	100.00	1,500.00
	<hr/>	
Sage Construction Account No. 2 (transfer).....		4,038.76
		<hr/>
		\$136,152.06
EXPENDITURES		
General office expenses	\$5,548.85	
Stationery, printing and office supplies.....	2,788.15	
Salary of Secretary	7,000.00	
Treasurer's office expenses	2,100.00	
Audit of accounts	1,000.00	
Legal expenses	3,500.00	
Annual and separate reports.....	5,751.54	\$27,688.54
	<hr/>	
Annual Meeting expenses	\$1,145.73	
Reception expenses	985.25	
Preparation and mailing circulars.....	4,869.31	7,000.29
	<hr/>	
Publication Account (transfer)	\$11,400.00	
Tropical Research Account (transfer)	3,766.70	
Library Account (transfer)	2,000.00	
Heads and Horns Collection Account (transfer)....	1,000.00	18,166.70
	<hr/>	
Zoological Park Account 1923 Deficit (transfer)....	\$9,470.68	
Aquarium Account 1922 Deficit (transfer).....	4,149.66	
Aquarium Account 1923 Deficit (transfer).....	350.00	
Special Maintenance (Zoological Park)	19,485.66	
Special Maintenance (Aquarium)	3,597.48	
Aid to Employees	1,342.40	
Pension Fund Income Account (transfer)	3,665.00	
Aquarium specimens	2,013.88	
Aquarium expenses	1,770.76	
Insurance (Aquarium)	584.09	
Insurance (Zoological Park)	2,246.90	
Miscellaneous expenses	2,743.06	51,419.57
	<hr/>	
Unexpended balance as of December 31, 1924.....		31,876.96
		<hr/>
		\$136,152.06

GROUP VI

Scientific and Research Fund

PUBLICATION ACCOUNT

Unexpended balance as of December 31, 1923.....	\$1,645.66
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RECEIPTS

General Income Fund (transfer)	\$11,400.00	
Sale of "Our Vanishing Wild Life"	4.75	
Sale of "Tropical Wild Life in British Guiana"....	44.25	
Sale of Zoopathologia	5.00	11,454.00
		<hr/> \$13,099.66

EXPENDITURES

Bulletin	\$7,373.09	
Zoologica	2,246.29	
Photographs and slides	3,222.28	
Express and other charges	21.47	12,863.13
		<hr/> 236.53
Unexpended balance as of December 31, 1924.....		<hr/> \$13,099.66

TROPICAL RESEARCH ACCOUNT

RECEIPTS

George F. Baker	\$1,000.00	
Robert Brewster	1,000.00	
T. Coleman du Pont	1,000.00	
Edward S. Harkness	1,000.00	
Anthony R. Kuser	1,000.00	
Ogden Mills	1,000.00	
George D. Pratt	1,000.00	
Mortimer L. Schiff	1,000.00	
Harrison Williams	1,000.00	
John E. Berwind	500.00	
Dr. Lewis R. Morris	500.00	
Cleveland H. Dodge	250.00	
Miss Martha R. White	25.00	
General Income Fund (transfer)	3,766.70	14,041.70
		<hr/> \$14,041.70

EXPENDITURES

Salaries	\$9,616.70	
Laboratory supplies	844.60	
Laboratory expenses	17.75	
Stationery and office supplies	82.94	
Subsistence	191.15	
Traveling and other expenses.....	2,218.27	
Miscellaneous supplies	421.47	
Miscellaneous expenses	625.00	\$14,017.88
		<hr/> 23.82
Unexpended balance as of December 31, 1924.....		<hr/> \$14,041.70

GROUP VI.

Scientific and Research Fund

ARCTURUS EXPLORATION ACCOUNT

RECEIPTS		
Vincent Astor	\$10,000.00	
Clarence Dillon	10,000.00	
Marshall Field	10,000.00	
Harrison Williams	10,000.00	
George F. Baker, Jr.	2,000.00	\$42,000.00
		<hr/>
		\$42,000.00
EXPENDITURES		
Motion Pictures	\$2,350.00	
Scientific Equipment	3,756.36	\$6,106.36
		<hr/>
Unexpended balance as of December 31, 1924.....		35,893.64
		<hr/>
		\$12,000.00

LIBRARY ACCOUNT

Unexpended balance as of December 31, 1923.....		\$146.80
RECEIPTS		
General Income Fund (transfer)	\$2 000.00	
Edward H. Squibb, M.D.	25.00	\$2,025.00
		<hr/>
		\$2,171.80
EXPENDITURES		
Books, pamphlets, etc.	\$208.72	
Subscriptions to periodicals	158.55	\$367.27
		<hr/>
Express and other charges	\$8.93	
Miscellaneous supplies	7.10	
Miscellaneous expenses	1,554.38	1,570.41
		<hr/>
Unexpended balance as of December 31, 1924.....		234.12
		<hr/>
		\$2,171.80

HEADS AND HORNS COLLECTION ACCOUNT

Unexpended balance as of December 31, 1923.....		\$30.67
RECEIPTS		
General Income Fund (transfer)		1,000.00
		<hr/>
		\$1,030.67
EXPENDITURES		
Heads and Horns	\$29.58	
Express and other charges	35.76	
Miscellaneous expenses	877.00	\$942.34
		<hr/>
Unexpended balance as of December 31, 1924.....		88.33
		<hr/>
		\$1,030.67

H. R. MITCHEL, *Chief Clerk.*
January 1, 1925.

CORNELIUS R. AGNEW, *Treasurer.*

NEW YORK ZOOLOGICAL SOCIETY

Department of Parks -- City of New York

NEW YORK ZOOLOGICAL PARK

Code N. D. P. 332 S. A.

Construction of Walks and Guard Rails and Restoration of
Replanting of West Bank of Bronx River

Approved by Board of Estimate, July 15, 1919..... \$5,000.00

EXPENDITURES DURING 1924

Personal Service	\$1,025.00	
Materials	2,434.71	3,459.71
	<hr/>	
Unexpended balance as of December 31, 1924.....		\$1,540.29

Code N. D. P. 332 T.

Construction of a Machinery Shed and a General Storage Shed,
Including Architect's Fees

Approved by Board of Estimate, June 11, 1920..... \$15,000.00

EXPENDITURES DURING 1923 AND 1924

Dinney-Newgarden Company	\$13,200.00	
Personal Service, Engineering	270.00	\$13,470.00
	<hr/>	
Unexpended balance as of December 31, 1924.....		\$1,530.00

ENCUMBRANCE

Fred Sauvan, Contract for Hot Water Heating System	1,100.00
	<hr/>
Unencumbered balance as of December 31, 1924.....	\$430.00

JOHN H. BERGEN, *Chief Clerk*,
Department of Parks, Bronx.

January 1, 1925.

Department of Parks -- City of New York

AQUARIUM—ALTERATIONS

FUNDS AVAILABLE—YEAR, 1924

Original appropriation approved by Board of Estimate December 28, 1921

Code CDP-4-A—Construction of an additional story to the Aquarium building, Battery Park (40-year serial)	\$75,000.00	
Code CDP-4-B—Plumbing, heating and interior equipment for additional story to Aquarium building, Battery Park (15-year serial)	11,000.00	\$86,000.00
Open Market Order for \$7,970 met by Park Department, Manhattan, Code No. 1143—Defective walls, etc., at Aquarium		7,970.00
		<u>\$93,970.00</u>

ENCUMBRANCES AGAINST CDP-4-A AND CDP-4-B

Original contract awarded to Thos. A. Reilly Co., August 29, 1923, for the construction of additional story to Aquarium, chargeable to the Fund CDP-4-A	\$62,000.00	
Additional contracts awarded to Thos. A. Reilly Co., for the construction of additional story to Aquarium, chargeable to the Fund CDP-4-A	11,773.30	
Open Market Order for blueprints—Electro Sign Co., chargeable to the fund CDP-4-A	7.00	
Contract awarded to John Smith for plumbing, heating, etc., chargeable to CDP-4-B	720.00	
Open Market Order for electrical work in connection with Thos. A. Reilly's contract, chargeable to CDP-4-B	2,558.00	
Open Market Order for electrical work—Jos. Barre Co., chargeable to CDP-4-B	920.00	
Open Market Order for marble work—Jos. L. Burke Co., chargeable to CDP-4-B	899.00	
Open Market Order for replacing defective walls—Thos. A. Reilly Co., chargeable to Department of Parks, Manhattan, Code 1143	7,970.00	\$86,847.30
Balance available		<u>7,122.70</u>
		\$93,970.00
Amount available for the interior finishing		\$5,903.00
Amount available for the construction of additional story		1,219.70
		<u>\$7,122.70</u>

January 1, 1925.

JAMES A. SHERRY, *Bookkeeper*,
Department of Parks, Manhattan.

SECURITIES OWNED BY NEW YORK ZOOLOGICAL SOCIETY

December 31, 1924

*Listed at Cost or Bequest Value***Endowment Fund**

GENERAL ENDOWMENT ACCOUNT

Bonds as follows:

\$50,000	American Tel. & Tel. Co., Collateral Trust 4%, 1929.....	\$45,000.00
30,000	Amer. Tel. & Tel. Co. 20-yr. Skg. Fd. Debenture 5½%, 1943	29,475.00
4,000	Baltimore & Ohio RR. Co., 1st Mtge. 4%, 1948.....	3,120.00
3,000	Central RR. Co. of New Jersey, Gen. Mtge. 5%, 1987.....	3,031.25
22,000	Chic., Mil & Pudget Sd. Ry. Co., 1st Mtge. Series A, 4%, 1949	20,775.00
20,000	Chicago & Northwestern Ry. Co., Gen. Mtge. 4%, 1987...	19,750.00
5,000	Colorado & Southern Ry. Co. 1st Mtge. 4%, 1929.....	4,750.00
15,000	Detroit Edison Co., Rfdg. 5%, 1949	14,625.00
9,000	Lehigh Valley Terminal Ry. Co., 1st Mtge. 5%, 1941.....	9,090.00
75,000	P. Lorillard Co., 5%, 1951.....	72,775.00
5,000	Mich. Cent. RR. Co., Mich. Air Line RR. 1st Mtge. 4%, 1940	4,950.00
20,000	Milwaukee Sparta & No. West'n Ry. Co., 1st Mtge. 4%, 1947	18,900.00
5,000	Missouri & Ill. Bdg. & Belt RR. Co., 1st Mtge. 4%, 1951..	5,000.00
1,000	Morris & Essex RR. Co., 1st Rfdg. Mtge. 3½%, 2000....	876.25
25,000	New England Tel. & Tel. Co., 1st Series A 5%, 1952....	24,843.75
25,000	N. Y. & Westchester Ltg. Co., Gen. Mtge. 100-yr. 4%, 2004	19,750.00
25,000	Oregon Short Line RR. Co., 1st Cons. Mtge. 5%, 1946....	25,990.00
10,000	St. Paul, Minn. & Man. Ry Co., Cons. Mtge. 4%, 1933....	9,800.00
47,000	Union Pac. RR. Co., 1st Mtge. RR. & L. G. 4%, 1947....	44,058.00
12,500	United Electric Rys. Co., Gen. & Rfdg. Mtge. Series B, 4%, 1951	10,625.00
10,000	United Elec. Rys. Co., Prior Lien, Series B, 4%, 1946....	8,500.00
7,000	United New Jersey RR. & Canal Co., Gen. Mtge. 4%, 1944	6,230.00
75,000	United States Steel Corp., 10/60 yr. Skg. Fund 5%, 1963	77,758.00
20,000	Vandalia RR. Co., Cons. Mtge. Series B, 4%, 1957.....	19,400.00

Stocks as follows:

shares		
100	New York, Lackawanna & Western Ry. Co. Capital.....	9,615.00
546	Standard Oil Co. of New Jersey Preferred.....	61,472.15
25	United Electric Rys. Co. Capital.....	2,125.00

\$572,284.40

SAGE ENDOWMENT ACCOUNT

Bonds as follows:

\$6,000	Baltimore & Ohio RR. Co., Prior Lien, 3½%, 1925.....	\$4,860.00
4,000	Baltimore & Ohio RR. Co., Southwestern Div., Gold 3½%, 1925	3,490.00
50,000	Central Pacific Ry. Co., 1st Rfdg. 4%, 1949.....	43,983.75
50,000	Chi., Burl. & Quincy RR. Co., 1st & Rfdg. Series A, 5%, 1971	50,130.00
6,000	Erie RR. Co., Prior Lien 4%, 1996.....	3,015.00
100,000	Indiana Steel Co., 1st Mtge. 5%, 1952.....	99,973.50
21,000	Interborough Rapid Transit Co., 1st & Rfdg. 5%, 1966....	13,413.75
50,000	Liggett & Myers Tobacco Co., Gold 5%, 1951.....	49,262.50
10,000	New Bruns. So. Ry. Co., 1st Mtge. 30-yr. Gold 3%, 1933..	8,100.00
10,000	New York Central RR. Co., Cons. Mtge. Series A, 4%, 1998	8,034.00
50,000	N. Y. Central RR. Co., Rfdg. & Imp. Series C, 5%, 2013..	47,250.00
4,000	N. Y. State Rys. Co., 1st Cons. Mtge. Gold, Series A, 50-yr. 4½%, 1962	2,645.00
50,000	N. Y. Tel. Co., 1st & Gen. Mtge. Skg. Fund 4½%, 1939..	43,326.50
50,000	Northwestern Bell Telephone Co., 1st Series A, 7%, 1941.	53,441.25
10,000	Ore.-Wash. RR. & Nav. Co., 1st & Rfdg. Mtge. Series A, 4%, 1961	6,500.00
5,000	Rochester Ry. & Light Co., Cons. Mtge. 5%, 1954.....	4,475.00
6,000	Schenectady Ry. Co., 1st Mtge. 30-yr. Series A, Gold 5%, 1946	3,690.00

Stocks as follows:

shares		
200	Atchison, Topeka & Santa Fe Ry. Co., Preferred.....	14,525.00
52	Bankers Trust Co., Capital	19,500.00
51	Chicago & Northwestern Ry. Co., Common.....	3,190.69
126	General Electric Co., Common	27,720.00
63	General Electric Co., Special.....	630.00
56	Illinois Central RR. Co., Capital	5,521.92
144	Pennsylvania RR. Co., Capital, Par \$50.....	4,887.00
88	Pullman Co., Capital	9,636.00
454	Standard Oil Co. of New Jersey, Preferred.....	45,701.91
100	Union Pacific RR. Co., Preferred.....	6,237.50
250	United States Steel Corp., Preferred.....	27,359.38
38	Western Union Telegraph Co., Capital.....	3,477.00
		<hr/>
		\$613,976.65

ROCKEFELLER ENDOWMENT ACCOUNT

Bonds as follows:

\$50,000	Central Pacific Ry. Co., 1st Rfdg. Mtge. 4%, 1949.....	\$43,050.00
50,000	Chic., Bur. & Q. RR. Co., 1st & Rfdg. Mtge. Series A, 5%, 1971	49,322.50
50,000	Lake Shore & Michigan Southern Ry. Co., 4%, 1931....	45,915.50
50,000	Liggett & Myers Tobacco Co., Gold 5%, 1951.....	48,243.75
25,000	P. Lorillard Co., Gold 5%, 1951.....	24,037.50
50,000	New England Tel. & Tel. Co., 1st Mtge. Series A, 5%, 1952	48,735.00
40,000	New York Central RR. Co., Cons. Mtge. Series A, 4%, 1998	32,015.00
50,000	New York Central RR. Co., Rfdg. & Imp. Series C, 5%, 2013	47,562.50
50,000	N. Y. Tel. Co., 1st & Gen. Mtge. Skg. Fd. 4½%, 1939....	46,787.50
50,000	Union Pacific RR. Co., 1st RR. & Land Grant 4%, 1947..	45,693.75
50,000	United States Steel Corp., 10/60 yr. Skg. Fd. 5%, 1963...	51,075.00
18,000	Western Union Tel. Co., Fdg. & Real Est. 4½%, 1950....	16,899.50
		<hr/>
		\$499,337.50

GEORGE F. BAKER ENDOWMENT ACCOUNT

Bonds as follows:

\$50,000	National Tube Co., 1st Mtge. 5%, 1952.....	\$49,899.75
50,000	Pennsylvania RR. Co., Gen. Mtge. Series B, 5%, 1968....	50,012.50
		<hr/>
		\$99,912.25

Special Endowment Fund

CADWALADER ANIMAL ENDOWMENT ACCOUNT

\$20,000	Illinois Central RR. & Chicago, St. Louis & New Orleans RR. Co. Jt., 1st Ffdg. Mtge. Series A, 5% Bonds, 1963..	\$20,000.00
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FLORENCE LYDIG STURGIS ACCOUNT

\$10,000	American Tel. & Tel. Co., Skg. Fd. 5½%, 1943.....	\$9,987.50
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STOKES BIRD ENDOWMENT ACCOUNT

\$5,000	Illinois Central RR. Co., Rfdg. Mtge. 4% Bonds, 1955....	\$5,056.46
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CARNEGIE PENSION ENDOWMENT ACCOUNT

Bonds as follows:

\$25,000	Chicago & Northwestern Ry. Co., Gen. Mtge. 4%, 1987....	\$23,687.50
25,000	Illinois Central RR. Co., Rfdg. Mtge. 4%, 1955.....	23,062.50
25,000	Lehigh Coal & Nav. Co., Cons. Mtge. Skg. Fd. Series A, 4½%, 1954	24,875.00
1,000	Michigan Central RR. Co., Gold 3½%, 1952.....	817.50
5,000	Morris & Essex RR. Co., 1st Rfdg. Mtge. 3½%, 2000....	4,373.75
25,000	Philadelphia & Baltimore Central RR. Co., 1st Mtge. 4%, 1951	23,250.00
		<hr/>
		\$100,066.25

Pension Fund Income Account

Uninvested balance as of December 31, 1923:

Deposited with The Farmers' Loan & Trust Co....	\$1,592.12	
Deposited with The Corn Exchange Bank (Bronx)	115.41	\$1,707.53

Investments at cost		98,916.75
		<u>\$100,624.28</u>

RECEIPTS

Interest on Bank Balances.....	\$75.84	
Interest on Bond Investments.....	4,847.64	
Dues collected from Zoological Society employees.....	4,150.58	
Special contribution	100.00	\$9,174.06

Contributed by the N. Y. Zoological Society:

Income from Carnegie Endowment.....	\$4,335.00	
General Income Fund (transfer)	3,665.00	8,000.00

\$117,798.34

EXPENDITURES

Refund of dues, with accrued interest a/c death of members	\$428.30	
Refund of dues, with accrued interest, to resigning members	473.85	
Death benefit a/c Joseph Leibel.....	348.96	
Clerical Services and Printing	337.00	
Pension payments	4,573.71	
Special allowance a/c pension	90.00	\$6,251.82

Investments at Cost:

\$5,000 M. S. S. M. & Atlantic Ry., 1st 1926 4% Bonds	\$4,868.75	
5,000 23rd St. Ry. Co., Imp. & Ref. 1962 5% Bonds	4,825.00	
6,000 B. & O. RR. Co., 1st 1948 4% Bonds.....	4,680.00	
7,000 Chic., Milw. & St. P. Ry. Co., 1932 4½% Bonds.	5,368.75	
3,000 Union Pacific R.R., 1st 1947 4% Bonds	2,486.25	
2,000 N. Y. Cen. RR. (Lake Shore Col.), 1998 3½% Bonds	1,300.00	
5,000 Oregon Short Line Ry., 1946 5% Bonds.....	4,945.00	
5,000 Detroit Edison, 1949 5% Ref. Bonds	4,875.00	
6,000 Buffalo General Elec., 1st 1939 5% Ref. Bonds	5,640.00	
10,000 I. C. & St. L. & N. O. RR. Co., Jt. 1963 5% Bonds.	9,818.75	
12,000 C. B. & Q. RR., Ill. Divn., 1949 3½% Bonds..	9,462.00	
13,000 B. & O. (P., L. E. & W. Va.) RR., 1941 4% Ref. Bonds	10,506.25	
19,000 Michigan Central RR., 1st 1952 3½% Bonds..	15,416.00	
25,000 Liggett & Myers Tobacco Co., 1951 5% Bonds	24,455.00	108,646.75

Uninvested Balance, December 31, 1924:

Deposited with The Farmers' Loan & Trust Co..	\$2,485.60	
Deposited with The Corn Exchange Bank (Bronx)	414.17	2,899.77

\$117,798.34

H. R. MITCHELL,
Asst. to Treasurer in Charge of Pensions
January 1, 1925.

CORNELIUS R. AGNEW,
Treasurer.

PEET, MARWICK, MITCHELL & CO.

ACCOUNTANTS AND AUDITORS

40 EXCHANGE PLACE

NEW YORK

Auditors' Certificate

We have audited the books and accounts of the New York Zoological Society and of the "Pension Fund Income Account" for the year ended December 31, 1924, and certify that the foregoing schedules are in accordance with the books, and that, in our opinion, they correctly record the transactions relating to the funds of the Society and the "Pension Fund Income Account" for the year 1924, and the condition of the funds as at December 31, 1924.

The subscriptions, donations and dues reported as received, and the income from investments have been properly accounted for, and the securities and cash on hand at December 31, 1924, as shown in the accounts of the Funds presented herewith, have been checked and found in order. Satisfactory vouchers have been produced for the expenditures.

New York, N. Y.,

April 15, 1925.

PEET, MARWICK, MITCHELL & Co.

Report of the Auditing Committee

OF THE

NEW YORK ZOOLOGICAL SOCIETY

To the President and Board of Managers
of the New York Zoological Society:

Dear Sirs:

We beg to report that we have examined the annual audit of the books and accounts of the New York Zoological Society for the year ended December 31, 1924, made by Messrs. Peet, Marwick, Mitchell & Co., Inc., Certified Accountants, and herewith submit the same to you as a complete and satisfactory audit of said books and accounts, including the General Fund, the Carnegie Pension Fund, the Rockefeller, Baker, Sturgis, Cadwalader and Stokes Funds and the Pension Fund Income Account, it appearing that all expenditures and receipts of the various accounts are fully set forth therein, that the cash on hand with the various depositories has been verified and found correct, and that all securities in which the funds of the Society are invested have been examined and found as reported.

Expenditures made through the Park Department of the City of New York have not been verified by this audit as such moneys have not passed through the hands of the Society but will in due course be checked and verified by the Comptroller of this city.

Respectfully submitted,

Dated, May 1, 1925.

WILLIAM W. NILES, *Chairman.*

W. REDMOND CROSS.

GEORGE C. CLARK, JR.

SUBSCRIPTIONS TO THE ENDOWMENT FUNDS OF THE
NEW YORK ZOOLOGICAL SOCIETY

GENERAL ENDOWMENT ACCOUNT

Mrs. Frederick F. Thompson	\$55,000.00
E. C. Converse	50,000.00
Jacob H. Schiff	50,000.00
Maria DeWitt Jesup	25,000.00
George F. Baker	25,000.00
Cleveland H. Dodge	25,000.00
Samuel Thorne	25,000.00
Watson B. Dickerman	20,000.00
J. P. Morgan	20,000.00
Lispenard Stewart	12,500.00
Frank W. Kitching	10,329.16
Edwin Gould	10,000.00
Edward S. Harkness	10,000.00
James J. Hill	10,000.00
Henry Iden	10,000.00
Ogden Mills	10,000.00
Levi P. Morton	10,000.00
Percy R. Pyne	10,000.00
Charles E. Rhinelanders	10,000.00
John D. Rockefeller, Jr.	10,000.00
Edward Russ	10,000.00
Phoebe Anna Thorne	10,000.00
Mortimer L. Schiff	6,000.00
Abram G. Nesbitt	5,500.00
John D. Archbold	5,000.00
Samuel P. Avery	5,000.00
Frederick G. Bourne	5,000.00
Robert S. Brewster	5,000.00
John L. Cadwalader	5,000.00
Andrew Carnegie	5,000.00
Hugh J. Chisholm	5,000.00
George C. Clark	5,000.00
C. F. Dieterich	5,000.00
George J. Gould	5,000.00
Archer M. Huntington	5,000.00
George W. Perkins	5,000.00
Nelson Robinson	5,000.00
F. K. Sturgis	5,000.00
Henry A. C. Taylor	5,000.00
Emily Trevor	5,000.00
Serena Rhinelanders	2,500.00
Grant B. Schley	2,500.00
Mrs. Ethel R. Thayer	2,000.00
Mrs. Finley J. Shepard	1,325.00
Dr. Walter B. James	1,000.00
Emma C. Jones	1,000.00
Jacob Langeloth	1,000.00
John A. Roebling	1,000.00
F. Augustus Schermerhorn	1,000.00

Carried Forward \$532,654.16

<i>Brought Forward</i>	\$532,654.16
Louis J. Boury	800.00
C. N. Bliss	500.00
Dr. John F. Erdmann.....	500.00
John J. Pierpont	250.00
H. C. von Post	250.00
Through Ladies' Auxiliary	3,355.00
Life Memberships and Various Subscriptions.....	37,291.38
Profit on Sale of Bonds	598.36
	<hr/>
	\$576,198.90

SAGE ENDOWMENT ACCOUNT

Margaret Olivia Sage	\$726,318.87
Profit on Sale of Securities.....	28,371.00
Stock dividend	630.00
	<hr/>
	\$755,319.87
Transfer to Sage Construction Account.....	\$102,060.26
Transfers to Heads and Horns Building Account....	37,226.32
	<hr/>
Balance, December 31, 1924.....	\$616,033.29

ROCKEFELLER ENDOWMENT ACCOUNT

John D. Rockefeller, Jr.....	\$500,000.00
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GEORGE F. BAKER ENDOWMENT ACCOUNT

George F. Baker	\$100,000.00
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Special Endowment Fund

Andrew Carnegie (Pension)	\$100,000.00
John L. Cadwalader (Animal)	20,000.00
Florence Lydig Sturgis (Bird)	10,000.00
Caroline Phelps Stokes (Bird)	5,000.00
December 31, 1924.	

CONTRIBUTIONS TO SPECIAL FUNDS OF THE NEW YORK ZOOLOGICAL SOCIETY

Includes all contributions of \$5,000 and over, and donations
to the original Park Improvement Fund of \$250,000.00

Andrew Carnegie	\$31,000.00
Jacob H. Schiff	22,300.00
George F. Baker	20,500.00
Samuel Thorne	18,950.00
Mortimer L. Schiff	16 390.00
George J. Gould	15,300.00
John D. Rockefeller	15,000.00
Cleveland H. Dodge	14,125.00
Harrison Williams	14,086.25
E. C. Converse	14,000.00
George D. Pratt	14,000.00
Edward S. Harkness	12,250.00
Percy R. Pyne	11,450.00
John D. Archbold	10,100.00
Vincent Astor	10,000.00
Mrs. Andrew Carnegie	10,000.00
Clarence Dillon	10,000.00
Marshall Field	10,000.00
Mrs. Frederick F. Thompson	10,000.00
Robert S. Brewster	9,500.00
Anthony R. Kuser	9,450.00
Lispenard Stewart	9,250.00
William Rockefeller	9,000.00
Levi P. Morton	8,500.00
Charles F. Dieterich	8,050.00
Charles T. Barney	7,500.00
F. Augustus Schermerhorn	7,500.00
Cornelius Vanderbilt	7,500.00
C. Ledyard Blair	6,750.00
A. Barton Hepburn	6,500.00
Mrs. Finley J. Shepard	6,400.00
John Cadwalader	6,200.00
Oliver H. Payne	6,000.00
Henry A. C. Taylor	6,000.00
William K. Vanderbilt	6,000.00
William C. Whitney	6,000.00
Nelson Robinson	5,900.00
John S. Barnes	5,750.00
Frederick G. Bourne	5,500.00
J. P. Morgan	5,500.00
Emerson McMillan	5,280.00
Oswald Ottendorfer	5,250.00
William D. Sloane	5,250.00
Edward J. Berwind	5,000.00
William E. Dodge	5,000.00
Robert Goclet	5,000.00
C. P. Huntington	5,000.00
Mrs. John B. Trevor	5,000.00
Mrs. Antoinette E. Wood	5,000.00

\$473,981.25



THE PARK'S FIRST AARD-VARK

After many fruitless efforts, the Society succeeded eventually in 1924, in securing a good specimen of an adult Aard-Vark. The animal arrived at the Park in perfect condition and attracted a great amount of attention.

It lived about three and one-half months after its arrival.

LIST OF ACCESSIONS BY THE
New York Zoological Society

AT THE ZOOLOGICAL PARK

1924

BY GIFT.

- ADAMS, MRS. J. B., Schenectady, N. Y.:
All-Green Parakeets (2 specimens).
- AGNEW, JAMES and GAER, CAPTAIN JOSEPH, S. S. *Putnam*, New York City:
Barn Owls (2 specimens).
- ALLABEN, FRANK, New York City:
Flying Squirrels (2 specimens).
- ANDERSON, A. A., New York City:
Opossum.
- BALDWIN, MISS ELIZABETH RUTGERS, New Brunswick, N. J.:
Barbary Turtle Dove.
- BARR, B. N., New York City:
1 South American Boa, 1 Murine Opossum.
- BARR, MISS C. L., New York City:
Crab-Eating Raccoon.
- BEAL, ERNEST, Ridgefield Park, N. J.:
Robin.
- BEERS, J. N., Red Bank, N. J.:
Gopher Tortoise.
- BELLANDO, MRS. P., New York City:
3 Black-Throated Singing Finches, 1 Indigo Bunting.
- BENEDICT, CHARLES P., New York City:
2 South American Boas, 1 Tree Snake.
- BERKES, MRS. W., New York City:
1 Brown-Throated Conure, 1 Gray-Breasted Parakeet.
- BEYER, JOHN L., U. S. Lighthouse Tender *Spruce*, Tompkinsville, S. I.:
Coati Mundi.
- BLANDY, MRS. G. H., New York City:
Sparrow Hawk.
- BLAUWELT, CAPTAIN F. W., S. S. *Lake Flattery*, New York City:
Bolivian Guans (2 specimens).
- BOWDISH, BEECHER S., Newark, N. J.:
Zebra Finch.
- BRAZIL, DR. VITAL, Nictheroy, Brazil:
1 South American Rattlesnake, 1 South American Lance-Head Snake.
- BROOKS, MRS. ARTHUR, East Orange, N. J.:
Marmoset.
- BUTLER, JOHN L., and WEISENDONGER, HON. U. V., Yonkers, N. Y.:
White-Tailed Deer.
- CACCINI, MAJOR A., New York City:
2 Wood Larks, 2 European Quail.

- CARDER, H. A., New York City:
Marmoset.
- CASTLE, H., New York City:
Alligator.
- CHAMBERLAIN, MISS A., New York City:
Canary.
- CHAPMAN, MRS. E. H., Penn Yan, Pa.:
Alligators (2 specimens).
- CLARK, L., Geneva, N. Y.:
Painted Turtles (2 specimens).
- CLARKE, O. T., Woodcliff Lake, N. J.:
White-Faced Sapajou.
- COLBURN'S TAXIDERMY STUDIO, Los Angeles, Calif.:
California Collared Lizards (3 specimens).
- CONEY, MRS. M. F., New York City:
Coyote.
- COOK, FRED, New York City:
Fantail Pigeons (18 specimens).
- CRAWFORD, HARRY, JR., New York City:
Sooty Mangabey.
- CROCKER LABORATORY, COLUMBIA UNIVERSITY, New York City:
6,688 White Rats, 2,352 White Mice.
- CUTHINGER, GEORGE J., Schenectady, N. Y.:
Murine Opossum.
- DA SANTOS, ALBAN, Kingstown, St. Vincent, B. W. I.:
Guilding's Amazon Parrot.
- DELA CRUZ, PHILIP, New York City:
Mongoose Lemur.
- DEPARTMENT OF PARKS, Houston, Texas:
Texas Copperhead Snakes (6 specimens).
- DE PASSO, H. J., New York City:
African Green Monkey.
- DOEHRING, WALTER, Brooklyn, N. Y.:
Diamond-Back Terrapin.
- DONNELLY, MRS. C., Carmel, N. Y.:
Yellow-Cheeked Amazon.
- DOOLING, MRS. J. T., New York City:
Yellow-Shouldered Amazon Parrot.
- DUNN, MISS FANNIE, Baltimore, Md.:
Coati Mundis (2 specimens).
- DUNN, J. ALLEN, Holmes, N. Y.:
Rabbits (34 specimens).
- DUSENBERRY, CHARLES R., Tuckahoe, N. Y.:
Golden Pheasant.
- ELLIS, N., Palisade Park, N. J.:
Painted Turtle.
- ERNST, MISS CHRISTINE, New York City:
Undulated Grass Parrakeets (4 specimens).
- ERSKINE, MRS. L. A., Upper Montclair, N. J.:
Tovi Parrakeets (2 specimens).
- ESSIG, MRS. N., New York City:
Green Monkey.
- ETHICAL CULTURE SCHOOL, Brooklyn, N. Y.:
Painted Turtles (2 specimens).

- FAGAN, CHARLES L., Rahway, N. J.:
 1 Svea Tern, 1 Violet-Eared Dove, 1 Greater Rufous Motmot, 1 California Quail, 2 Peruvian Pileated Sparrows, 1 Orchard Finch, 1 Pacific Bridled Tern, 2 Orange-Flanked Parakeets, 2 Bay-Winged Cowbirds, 2 Red-Faced Rails. Total, 14 specimens.
- FARRELLY, T. CHARLES, New York City:
 Badger.
- FISHER, GUS, Fort Lee, N. J.:
 Canada Porcupine.
- FOREST, RICHMOND, Port Richmond, S. I.
 White-Throated Sapajou.
- FRAYNE, MRS. M. H., New York City:
 Sapajou Monkey.
- FREDERICK, ROY, Delawanna, N. J.:
 Opossum.
- FREE, MRS. H., New York City:
 Brown Sapajou Monkey.
- FRODE, MRS. M. C., New York City:
 Indian Ring-Neck Parakeets (2 specimens).
- GAER, CAPTAIN JOSEPH and AGNEW, JAMES, S. S. *Putnam*, New York City:
 Barn Owls (2 specimens).
- GEISLER BIRD STORE, New York City:
 1 European Barn Owl, 2 Short-Eared Owls, 2 Kestrels. Total, 5 specimens.
- GEISMAR, H., Hoboken, N. J.:
 White-Nosed Coati Mundi.
- GENERAL POST OFFICE, New York City:
 Alligator.
- GILLAM, ARTHUR L., Flushing, L. I.:
 6 Banded Rattlesnakes, 1 Mountain Black Snake, 1 Pilot Blacksnake, 2 King Snakes, 1 Green Snake, 31 Hog-Nosed Snakes, 2 Pine Snakes, 1 Milk Snake. Total, 45 specimens.
- GILLET, FRED, New York City:
 American Crow.
- GILLETTE, DR. C., New York City:
 White-Faced Sapajou.
- GRACE, MRS. J. J., New York City:
 Screech Owl.
- GRAETER, H., New Rochelle, N. Y.:
 White-Faced Sapajou.
- GRAF, FRANK H., San Bernardino, Calif.:
 1 Red Rattlesnake, 4 Pacific Rattlesnakes, 7 Gopher Snakes, 2 Boyle's King Snakes, 5 Sharp-Nosed King Snakes, 2 King Snakes, 1 Water Snake, 1 Rattlesnake, 9 Striped Racers, 1 Racer Runner, 2 Pink Racers, 1 Spiny Swift, 1 Smooth-Scaled Coluber, 8 Horned Toads. Total, 45 specimens.
- GRANT, MAJOR C., Fort Sam Houston, Texas:
 2 Desert Tortoises, 1 Walking Stick, 1 Shingle-Back Lizard. Total, 4 specimens.
- GRANT, DEFOREST, New York City:
 Panama Amazon Parrot.
- GREEN, MCCOMBS, Brooklyn, N. Y.:
 Banded Rattlesnakes (2 specimens).
- GRIFFITH, D. W. STUDIO, Mamaroneck, N. Y.:
 Gray Fox.
- GROFF, R., Mt. Holley, N. J.:
 Chuckawalla.
- GUIDICE, CONRAD E., Yonkers:
 Red Fox.

- HAKINS, CHARLES J., New York City:
Squirrel Monkey.
- HALSTED, MRS. J. M., New York City:
2 African Silver-Bills, 2 Cordon Bleu.
- HANSEN, PETER, Brooklyn, N. Y.:
Banded Rattlesnakes (2 specimens).
- HARRISON, HARRY, Brooklyn, N. Y.:
White-Faced Sapajou.
- HASKELL, JACK, Henryville, Pa.:
3 Water Snakes, 2 Garter Snakes.
- HATT, ROBERT T., New York City:
Wood Rats (2 specimens).
- HAYTER, CAPTAIN S. W., S. S. *Port Adelaide*, Brooklyn, N. Y.
Crocodile.
- HEAHLE, FREDERICK, Town of Union, N. J.:
South American Boa.
- HEIMAN, E. A., Momence, Ill.:
Bull Snake.
- HENNINGER, CHARLES F., New York City:
Golden-Crowned Conures (2 specimens).
- HILL, MRS. G. W., White Plains, N. Y.:
Pea-Hen.
- HODGKISS, ENSIGN GEORGE KINGMAN, U. S. S. *Lawrence*, New York City:
Eskimo Dogs (2 specimens).
- HOWARD, JAMES HENRY, New York City:
South American Boa.
- JACOBBER, MISS A. MARIE, New York City:
Wood Turtle.
- JOSEPH, ELLIS S., Sydney, Australia:
1 Whistling Kite, 2 South African Giant Rats.
- KEARNEY, FRANK, New York City:
Alligator.
- KELLEY, MRS. WALTER, New York City:
Opossum.
- KLOUGH, GEORGE, Babylon, L. I.:
Great Horned Owl.
- KNOWLES, S., West Orange, N. J.:
Alligator.
- LABIEL, MRS. H., Tuckahoe, N. Y.:
White-Faced Sapajou.
- LEVINE, EMANUEL, Point Pleasant, Pa.:
Opossum.
- LINDLEY, W., Battavia, St. Vincent, B. W. I.:
2 Blue-Faced Boobies, 1 Frigate Bird.
- LOOMIS, L. J., Union, N. Y.:
Great Horned Owls (2 specimens).
- LORD, WILLIAM S., Stevensville, Mont.:
8 Red-Barred Garter Snakes, 7 Green Garter Snakes.
- LOWDEN, MISS A., East Orange, N. J.:
Undulated Grass Parrakeets (2 specimens).
- MACGUFFIE, DR. R., Passaic, N. J.:
Alligator.
- MCGEEHAN, JOHN E., New York City:
Alligator.
- MCINTOSH, F. G., Saratoga Springs, N. Y.:
Ring-Tailed Monkey.

- McKAY, MRS. F. C., New York City:
Cedar Waxwing.
- McKEAN, HUGH, Greeley, Pa.:
Banded Rattlesnake.
- McLARTY, MRS. AMELIA, New York City:
Wood Turtle.
- MAAS, MISS ADELE, New York City:
Orange-and-Blue Crowned Conure.
- MAHLER, J. H., New York City:
Indian Peafowl (2 specimens).
- MANDL, M. M., New York City:
Chuckawalla.
- MARCKRES, GEORGE M., Sharon, Conn.:
Pine Grosbeak.
- MAYER, EUGENE, Long Beach, L. I.:
35 Box Tortoises, 30 Spotted Turtles, 5 Mud Turtles, 2 Painted Turtles, 1
Spotted Turtle, 700 Toads. Total, 773 specimens.
- MINNER, ADOLPH, New York City:
Iguana.
- MITCHELL, ANSON J., New York City:
Alligators (2 specimens).
- MOORE, H. C., Corinth, Miss.:
White-Browed Tree Partridge.
- MOORE, WYATT, Concord, N. H.:
Great Horned Owl.
- MOROSINI, MISS GUILIA P., Riverdale-on-Hudson, N. Y.:
Opossum.
- MORROW, JOHN B., New York City:
Cuban Conure.
- MYERDIERKS, HENRY, New York City:
Alligators (4 specimens).
- NAEGELEN, JOSEPH, New York City:
3 South American Boas, 1 South American Rat Snake.
- NEWHILL, MISS STELLA, Maywood, Ill.:
White-Nosed Coati Mundi.
- NOHN, HENRY P., Brooklyn, N. Y.:
Hooded Sapajou.
- NUSS, MRS. HARRY, New York City:
White-Faced Sapajou.
- OFFICER on S. S. *Surinam*, New York City:
South American Gopher Tortoises (4 specimens).
- OSBORN, HENRY FAIRFIELD, JR., New York City:
Mongolian Pheasant.
- OSTER, F. A., New York City:
Indian Ring-Neck Pheasant.
- PAGE, E. M., Brooklyn, N. Y.:
Palm Tanager.
- PAGENSTECHE, G., New York City:
White-Throated Sapajou.
- PALISADE ENGINE COMPANY, Town of Union, N. J.:
Vervet Monkey.
- PALMER, A. F., Port Chester, N. Y.:
Mourning Dove.
- PATTON, WILLIAM O., New York City:
Alligator.

- PAUL, JOHN GILE, Watertown, Fla.:
5 Hutchins-Barnacle Goose Hybrids, 2 Blue Geese, 2 Canada Geese. Total,
9 specimens.
- PEARSON, MISS HELGA, Brooklyn, N. Y.:
African Bush Cat.
- PERCIVAL, GEORGE, Mt. Vernon, N. Y.:
Raccoons (2 specimens).
- PETERSEN, E. E., Brooklyn, N. Y.:
Little Green Heron.
- PFAHL, JOSEPH, Newark, N. J.:
Great Horned Owl.
- PIATTI, DR. VIRGIL C., Fort Myers, Fla.:
1 Diamond-Back Rattlesnake, 2 Corn Snakes.
- POLACK, ANTON J., New York City:
South American Boas (2 specimens).
- PONSELLE, MISS ROSA, New York City:
European Red Fox.
- PROBST, C. C., New York City:
Ring-Tailed Lemur.
- RAINER, D. A. C., Brooklyn, N. Y.:
South American Boas (2 specimens).
- RANKIN, MRS. J., New York City:
Blue-Fronted Amazon.
- REED, MRS. A., White Plains, N. Y.:
Lesser Sulphur-Crested Cockatoo.
- REED, MRS. D. P., New York City:
Geoffrey's Marmoset.
- REINHARDT, HENRY, Ardsley, N. Y.:
Alligators (2 specimens).
- REVLAND, MRS. DAISY, Brooklyn, N. Y.:
Hairy Saki Monkey.
- RICHMAN, MRS. A., New York City:
Opossum.
- RICKARD, TEX, New York City:
Alligator.
- RIECHMAN, JOHN T., Belford, N. J.:
Snowy Egret.
- RIEDMYER, MRS. M., New York City:
Yellow-Headed Conure.
- RUSSELL, MRS. PAUL F., Greenwich, Conn.:
Red Fox.
- RYAN, JAMES, JR., City Island, N. Y.:
Gray Fox.
- SALMON, F. S., New York City:
Alligators (3 specimens).
- SASCHA, PAUL ANDERSON, Tuckahoe, N. Y.:
Opossums (3 specimens).
- SAUTER, EDWARD, New York City:
Opossum.
- SCARLETT, MRS. S. E., New York City:
Yellow Grass Parakeet.
- SCHAFER, MISS GERTRUDE M., New York City:
Opossum.
- SCHRAMM, JOHN, New York City:
Milk Snake.
- SCHRAUSTADER, MRS. O., New York City:
Yellow-Headed Amazon Parrot.

- SILVEY, MRS. W. W., New York City:
Roseate Cockatoo.
- SMITH, HON. ALFRED E., Albany, N. Y.:
1 Red Fox, 1 Great Horned Owl.
- SMITH, MRS. HERBERT W., New York City:
Herring Gull.
- SMITH, WALTER, New York City:
Little Green Heron.
- SNAKE KING, W. A., Brownsville, Texas:
Preserved Specimen of Yellow-Bellied Sea Snake.
- SPENCE, B. L., Brooklyn, N. Y.:
South American Boas (2 specimens).
- STEWART, MISS SUSAN, New York City:
White-Throated Sapajou.
- STUTSMAN, FRANK V., Twin Lakes, Pa.:
1 Banded Rattlesnake, 1 Pilot Blacksnake.
- TALLIS, MRS. W. H., Pompton, N. J.:
Bleeding-Heart Pigeons (2 specimens).
- THAYER, GERALD H., Roseau, Dominica, B. W. I.:
2 Guilding's Amazon Parrots, 2 St. Vincent Barn Owls.
- THOMPSON, R. H., New York City:
Alligator.
- THORNE, R. W., New York City:
Banded Rattlesnakes (22 specimens).
- THORNE, RICHARD W., East Orange, N. J.:
8 Banded Rattlesnakes, 2 Copperhead Snakes.
- THURSTON, MISS ADELINE, New York City:
Woodchuck.
- TICE, WALTER A., New York City:
Hooded Sapajou.
- TOMASHEK, FRANK, New York City:
Canary.
- TOMPKINS, T. D., White Plains, N. Y.:
Red-Shouldered Hawk.
- TOPPER, H., New York City:
Mockingbird.
- TOWNSEND, EDWARD T., White Plains, N. Y.:
Bald Eagle.
- TOWNSEND, LIEUT. G. R., Brooklyn, N. Y.:
White-Faced Sapajou.
- TRIMPI, MRS. R. W., South Orange, N. J.:
Florida Raccoon.
- TRUMAN, STEWART W., Yonkers, N. Y.:
Red Fox.
- TURNER, FRANK, Darien, Conn.:
Red Foxes (3 specimens).
- VANDER SMISSSEN, DR. GILBERT, New York City:
Banded Rattlesnakes (3 specimens).
- VERNAY, ARTHUR S., New York City:
Salt Water Crocodiles (2 specimens).
- VON SCHRENCK, ARNOLD, New York City:
Texas Rattlesnake.
- WACTHELL, A., New York City:
Coati Mundi.
- WARNER, BRADFORD ARNOLD, Syosset, L. I.:
99 Painted Turtles, 1 Spotted Turtle.

- WASHINGTON, GEORGE, Bellport, L. I.:
Gray Phalanger.
- WEISENDONGER, HON. U. V., and BUTLER, JOHN L., Yonkers, N. Y.:
White-Tailed Deer.
- WELCH, MRS. GEORGE R., New York City:
Yellow-Headed Amazon Parrot.
- WENZEL, EDWARD, New York City:
Banded Rattlesnakes (5 specimens).
- WHITE, MRS. VIRGINIA, New York City:
Tovi Parrakeets (2 specimens).
- WILCOX, H. H., Nutley, N. J.:
Painted Turtles (12 specimens).
- WILSON, MASTER, S. E., Mt. Vernon, N. Y.:
Spot-Nosed Monkey.
- WOLBARST, HERMAN, New York City:
Screech Owl.
- WOLFF, DR. MEYER, New York City:
Mona Monkey.
- ZIMMERMAN, MRS. ANNA, New York City:
2 Undulated Grass Parrakeets, 1 Tovi Parrakeet, 1 Cockateel. Total, 4 specimens.

Library

BY GIFT

- ASSOCIATED MOUNTAINEERING CLUBS OF NORTH AMERICA, through LEROY JEFFERS, Secretary, New York City:
A Vision of Morocco, by V. C. S. O'Connor.
The South American Tour, by Annie S. Peck.
Shank's Mare, by Charles C. Stoddard.
Rocky Mountain National Park, by Enos A. Mills.
Camp Grub, by Elon Jessup.
Games and Recreational Methods, by Charles F. Smith.
Ski-ing for Beginners, by Arnold Lunn.
Trail Life in the Canadian Rockies, by B. W. Mitchell.
- BICKELHAUPT, DR. B. S., New York City:
Illustrated Natural History, by Charles Knight.
- BOARD OF GAME AND FISHERIES, Montgomery, Ala.:
Birds of Alabama, by Arthur H. Howell.
- FRY, H. W., New York City:
Australian Barkers and Biters, by Robert Kaleski.
- HORNADAY, WILLIAM T., New York City:
Tales From Nature's Wonderlands, by William T. Hornaday.
- OSBORN, MRS. HENRY FAIRFIELD, New York City:
Men of the Old Stone Age, by Henry Fairfield Osborn.
The Age of Mammals, by Henry Fairfield Osborn.
The Origin and Evolution of Life, by Henry Fairfield Osborn.
From the Greeks to Darwin, by Henry Fairfield Osborn.
Huxley and Education, by Henry Fairfield Osborn.
Evolution and Religion, by Henry Fairfield Osborn.

Art Gallery

BY GIFT.

HAGENBECK, LORENZ and HEINRICH, Hoboken, N. J.:
Bronze Group: "Lion Caressing Mate," by Jos. Pallenberg.

National Collection of Heads and Horns

BY GIFT.

- BOND, ALFRED HUIDEKOPER, New York City:
Kudu (*Strepsiceros capensis*). Skull and Horns.
African Steer (*Bos taurus*). Horns.
Duiker (*Cephalophus*). Horns.
- FIELD, WILLIAM B. OSGOOD, New York City:
New Brunswick Moose (*Alces Americanus*). Antlers.
- GRANT, MADISON, New York City:
Spitzbergen Reindeer (*Rangifer tarandus platyrhynchus*). Antlers.
- HOLT, RENFREW & COMPANY, Quebec, Canada:
Female Woodland Caribou (*Rangifer tarandus caribou*). Antlers.
- HOLZWORTH, JOHN M., New York City:
Black-Faced Caribou (*Rangifer montanus*). Mounted Head.
- MARVIN, JOSEPH BENSON, Bequest of, Saranac Lake, N. Y.:
Barren-Ground Musk-Ox (*Ovibos moschatus*). Mounted Head.
Newfoundland Caribou (*Rangifer terraenovae*). Mounted Head.
Newfoundland Caribou (*Rangifer terraenovae*). Antlers.
Mule Deer (*Odocoileus hemionus*). Two Mounted Heads.
Rocky Mountain Big Horn (*Ovis canadensis*). Mounted Head.
Prong-Horned Antelope (*Antilocapra americana*). Mounted Head.
White-Tailed Deer (*Odocoileus virginianus*). Two pairs of Antlers.
- PAUL J. RAINEY, Estate of, through ROGERS, MRS. GRACE RAINEY, Cotton Plant, Miss.:
Crawshay's Waterbuck (*Cobus crawshayi*). Mounted Head.
Jackson Hartebeest (*Bubalis jacksoni*). Two Mounted Heads.
Grant Gazelle (*Gazella granti*). Two Mounted Heads.
Thompson Gazelle (*Gazella thompsoni*). Mounted Head.
Reedbuck (*Cervicapra arundinum*). Two Mounted Heads.

BY PURCHASE

Musk Deer (*Moschus moschiferus*). Mounted Head.
Pacific Walrus (*Odobenus rosmarus obesus*). Skull and Three Tusks.

LIST OF ACCESSIONS BY THE
New York Zoological Society
AT THE AQUARIUM

1924

BY GIFT.

- BAER, ROSS, New York City:
Young Alligator.
- BASSFORD, THOMAS S., Madison, N. J.:
Large Snapping Turtle.
- BERLINER, MRS. G., Staten Island, N. Y.:
Painted Turtle.
- BLODGETT, ALDEN, G., New York City:
Young Alligators (2 specimens).
- BOLAM, AUSTEN, Brewster, N. Y.:
Snapping Turtle.
- BOWMAN, MISS L., New York City:
Spotted Turtle.
- BROWN, MISS LENORA, New York City:
1 Box Tortoise, 6 Sunfish.
- CHAMBERLAIN, E. H., New York City:
3 Young Alligators (3 specimens).
- CHASAR, MASTER SIMON, New York City:
Box Tortoises (2 specimens).
- CHENEVIER, A., New York City:
Box Tortoise.
- CHICHESTER, MASTER JUNIOR, Brooklyn, N. Y.:
Young Alligator.
- CHILDREN'S MUSEUM, Brooklyn, N. Y.:
Young Alligator.
- CONN, MISS ANNA M., Brooklyn, N. Y.:
Sea Horse.
- COVAS, SANTOS, New York City:
Diamond-Backed Terrapin (2 specimens).
- ELDRIDGE, R. N., New York City:
Large Lobster.
- FISHER, T., New York City:
Box Tortoise.
- FREEMAN, ROSS C., Upper Saranac, N. Y.:
Young Alligators (2 specimens).
- FREIDRICH, GOTTLIEB, Quebec, Canada:
Eels (32 large specimens).
- GOSIENECKI, MISS MARIE, New York City:
Box Tortoise.
- GRAYDON, MRS. J. A., New York City:
Snapping Turtle.

GRIES, M. P., New York City:

Young Painted Turtles (5 specimens).

GULLION, MAJOR ALLEN W., Governor's Island, N. Y.

Young Alligator.

HANAFORD, MISS R. F., Brooklyn, N. Y.:

Fire Salamander (2 specimens).

HARASEMOWITZ, A., New York City:

Wood Turtle.

HERZING, MR. ARTHUR J., New York City:

Box Tortoises (2 specimens).

HEWINS, DR., ELMHURST, L. I., N. Y.:

Young Alligator.

INTERSTATE PARK COMMISSION, Interstate Park:

3 Pickerel, 1 Common Catfish, 14 Yellow Perch, 127 Sunfish. Total, 154 specimens.

JELTRAY, MRS. CATHRINE, Brooklyn, N. Y.:

1 Box Tortoise, 1 Wood Turtle, 1 Painted Turtle. Total, 3 specimens.

KING, BERTELL W., New York City:

Snapping Turtle.

KLEMBANS, BOB, Newark, N. J.:

Young Alligator.

KLEMENS, KARL R., Brooklyn, N. Y.:

Young Alligator.

LEWIS, MASTER WILLIAM, Brooklyn, N. Y.:

Painted Turtle.

LISKIEWICZ, PETER, Brooklyn, N. Y.:

Young Garter Snake.

LOEB, LEE, New York City:

Painted Turtle.

LUKE, MISS LOIS, New York City:

Young Alligator.

MCCARTY, E., New York City:

Young Alligators (2 specimens).

MECKE, B., New York City:

Soft-Shelled Turtle.

MINZ, NATHAN, New York City:

Young Wood Turtle.

MITSCHEKE, MRS. C., Brooklyn, N. Y.:

Young Alligator.

MOLLER, MRS. RICHARD W., Clifton, N. J.:

Young Alligator.

NIXON, J. H., Brooklyn, N. Y.:

Brook Trout (165 specimens).

PEARLMUTTER, RUSSELL, New York City:

Painted Turtle.

POWELL, MRS. M., New York City:

Young Alligator.

PRELEUTHNER, DR. J., New York City:

2 Yellow Perch, 2 Small-Mouthed Black Bass. Total, 4 specimens.

PRINCE, ARCHIE, New York City:

Young Alligator.

RILEY, GEORGE, Princess Bay, S. I., N. Y.
Snapping Turtle.

ROBINSON, ROBERT, Coney Island, N. Y.:
Painted Turtle.

SANDERS, WALTER, Richmond Hill, N. Y.:
Snapping Turtle.

SAWYER, MISS B. A., New York City:
Pond Frog.

STEVENSON, MRS. H., Brooklyn, N. Y.:
Painted Turtle.

STUVE, MASTER FRITHJOF, New Dorp, S. I., N. Y.:
8 Painted Turtles, 1 Spotted Turtle, 1 Snapping Turtle. Total, 10 specimens.

SWAN, RICHARD M., Jersey City, N. J.:
Young Alligator.

VON LINGERKE, J., New York City:
Snapping Turtles (2 specimens).

WATESBERY, MISS J., Jamaica, L. I., N. Y.:
Fan-tailed Goldfish (14 years old).

WHITMORE, C. H., S. S. *Santa Olivia*:
Sea Snake.

SPECIMENS PURCHASED BY THE SOCIETY

Fresh Water.—Mud Puppies, 24; Hellbenders, 12; Cabomba, 500 sprays.

Salt Water, Local.—Fishes numbering 1,636 representing 67 species, were collected by the well-boat *Seahorse* or purchased from pound nets in the lower New York Bay. In addition there were purchased from the pound nets, 370 invertebrates of 10 species, and 17 sea turtles of 2 species. Sea Horses, 175.

Salt Water, Tropical.—Cormorant, 1; Brown Pelican, 1; Nurse Shark, 3; Round Ray, 1; Green Moray, 5; Spotted Moray, 3; Sea Catfish, 16; Squirrel Fish, 4; Shark Sucker, 1; Princess Rockfish, 1; Scamp, 2; Rock Hind, 19; Red Hind, 16; Coney, 2; Jewfish, 1; Graysby, 8; Nassau Grouper, 10; Red Grouper, 20; Black Grouper, 8; Yellowtail, 15; Gray Snapper, 3; Spot Snapper, 47; Dog Snapper, 3; Muttonfish, 4; Schoolmaster, 53; Blue-striped Grunt, 25; Yellow Grunt, 4; Gray Grunt, 26; White Grunt, 16; Tom Tate, 10; Margatefish, 1; Porkfish, 124; Porgy, 6; Sheepshead, 2; Salema, 8; Bermuda Chub, 12; Sandfish, 1; Sergeant Major, 62; Beau Gregory, 24; Hogfish, 20; Spanish Hogfish, 2; Pudding Wife, 3; Slippery Dick, 1; Rainbow Parrot-fish, 57; Blue Parrot-fish, 24; Lead-colored Parrot-fish, 1; Green Parrot-fish, 14; Mud Parrot-fish, 4; Black Angelfish, 89; Blue Angelfish, 70; Queen Angelfish, 3; Yellow-tailed Angelfish, 2; French Angelfish, 7; Butterfly Fish, 29; Blue Tang, 1; Doctorfish, 16; Triggerfish, 13; Queen Triggerfish, 4; Filefish, 7; Cowfish, 16; Stone Crab, 2; Crayfish, 12. Total, 965 specimens of 63 species.

The Aquarium Library

BY GIFT.

AMERICAN MUSEUM OF NATURAL HISTORY, New York City:
Natural History, Guide Leaflets, Annual Report.

BERLIN AQUARIUM, Berlin, Germany:
Guide Book.

BIGELOW, DR. EDWARD F., Sound Beach, Conn.:
The Guide to Nature.

- BOSTON SOCIETY OF NATURAL HISTORY, Boston, Mass.:
A New Species of Tereido from Florida, by William F. Clapp.
- BROOKLYN INSTITUTE OF ARTS AND SCIENCES, Brooklyn, N. Y.:
Annual Report, Museum News, and Quarterly.
- CALIFORNIA ACADEMY OF SCIENCES, San Francisco, Calif.:
Proceedings.
- CALIFORNIA BOARD OF FISH AND GAME COMMISSIONERS, Sacramento, Calif.:
California Fish and Game.
- COMMONWEALTH OF MASSACHUSETTS, Boston, Mass.:
Annual Report of the Division of Fisheries and Game.
- EGYPTIAN GOVERNMENT, Cairo, Egypt:
Report on the Fisheries of Egypt, 1922, by G. W. Paget.
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 *DWIGHT, JOHN E.,
 DWIGHT, JONATHAN, M. D.,
 *DWIGHT, MRS. M. EVERETT,
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 EAGLE, JOHN H.,
 EASTON, CHARLES PHILIP,
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 EBERSTADT, FERDINAND,
 ECK, WILLIAM J.,
 ECKART, EDMUND,
 EDDY, L. A., JR.,
 EDEN, JOHN H.,
 EDGAR, HERMAN L. R.,
 EDGAR, WILLIAM S.,
 EDISON, MRS. THOMAS A.,
 *EDMONDS, JOHN W.,
 EDWARDS, DR. GEORGE VAIL,
 EGERTON, MAURICE,
 EHRENREICH, ALFRED,
 EHRET, LOUIS J.,
 EHRMAN, MRS. ERNEST,
 EIDLITZ, ROBERT JAMES,
 EILERS, KARL,
 EINHORN, DR. MAX,
 EINSTEIN, I. D.,
 EISING, HARRY,
 ELDRIDGE, LEWIS A.,
 ELDRIDGE, WILLIAM T.,
 ELLIOTT, HOWARD,
 ELLIS, RALPH, JR.,
 ELLSWORTH, D. S.,
 ELLSWORTH, JOHN S.,
 ELMENDORF, DR. TEN EYCK,
 ELSE, MAXIMILIAN, JR.,
 EMANUEL, J. H., JR.,
 EMBURY, MISS EMMA C.,
 EMMET, MISS LYDIA F.,
 EMMET, ROBERT TEMPLE,
 ERDMANN, MARTIN,
 ERDMANN, WILLIAM,
 ERLANGER, MILTON S.,
 ESBERG, HENRY,
 ETTLINGER, LOUIS,
 EUSTIS, JOHN E.,
 EVANS, S. M.,
 EVANS, VICTOR J.,
 EVARTS, MISS MARY,
 EVELAND, FRANK,
 EVERETT, A. L.,
 EWING, GEORGE R. M.,
 EWING, MRS. THOMAS,
 EYER, GEORGE A.,
 FABBRI, ERNESTO G.,
 FABBRI, MRS. SHEPARD,
 FABER, EBERHARD,
 FAHNESTOCK, DR. ERNEST,
 FAHNESTOCK, MRS. ERNEST,
 FAHNESTOCK, HARRIS,
 FAHNESTOCK, WILLIAM,
 FAIRCHILD, BENJAMIN L.,
 FAIRCHILD, BENJAMIN THOMAS,
 FAIRCHILD, MRS. C. S.,
 FAIRCHILD, SAMUEL W.,
 FALES, HALIBURTON, JR.,
 FALLS, MRS. DEWITT CLINTON,
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 FARR, JOHN, JR.,
 FARRAND, MAX,
 FAY, FRANCIS B.,
 FECHTIG, DR. ST. GEORGE,
 FEDER, JOSEPH T.,
 FELDMAN, O. A.,
 FERGUSON, WILLIAM C.,
 FERRY, MANSFIELD,
 FEUSS, MAJOR ANDREW W.,
 FEUSTMAN, LEON P.,
 FIDDLER, E. T.,
 FIELD, MRS. AUGUSTUS B.,
 FIELD, HENRY, F. R. A. I.,
 FIELD, H. F.,
 FIELD, MARSHALL,
 FIELD, MRS. MARSHALL,
 FILLEY, F. HERBERT,
 FINCKE, MRS. REGINALD,
 FISCHER, WILLIAM H.,
 FISCHLIN, MISS LOUISE A.,
 FISH, MRS. HAMILTON,
 FISHER, EDWIN A.,
 FISHER, DR. G. CLYDE,
 FITZHUGH, JOHN L.,
 FITZPATRICK, FRANK J. E.,
 FLAGLER, HARRY HARKNESS,
 FLEISCHMANN, UDO M.,
 FLEITMAN, HENRY T.,
 FLEITMANN, FREDERICK T.,
 FLEMING, MATTHEW C.,
 FLETCHER, HENRY,
 FLORSHEIM, HARRY A.,

*DECEASED

FLOYD-JONES, EDWARD H.,
 FOGARTY, JAMES F.,
 FOOT, SANDFORD DWIGHT,
 FORBES, DR. JOSEPH H.,
 FORBIN, VICTOR,
 FORDYCE, JOHN A.,
 FORREST, ARCHIBALD A.,
 FOSBURGH, JAMES B. A.,
 FOSHAY, P. MAXWELL,
 *FOSTER, EDWARD W.,
 FOSTER, F. TAYLOR,
 FOSTER, FRANK B.,
 FOSTER, GIRAUD,
 FOSTER, HOWARD CROSBY,
 FOSTER, J. HEGEMAN,
 FOSTER, MACOMB G.,
 *FOULK, THEODORE,
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 FOWLER, MRS. ARTHUR,
 FOWLER, HAROLD,
 FOWLER, RUSSELL S., M.D.,
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 FOX, AUSTIN G.,
 FOX, FREDERICK P.,
 FRANK, EMIL,
 FRANK, LOUIS,
 FRASER, ALEXANDER J.,
 FRASER, ALEXANDER V.,
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 FRENCH, DANIEL C.,
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 FREW, WALTER E.,
 FRIES, DR. HAROLD H.,
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 FROMM, MISS LOUISE,
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 FROST, AARON V.,
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 FROTHINGHAM, JOHN W.,
 FROTHINGHAM, WILLIAM I.,
 *FRUEAUFF, FRANK W.,
 FRY, MORTON H.,
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 FULD, FELIX,
 FULLE, JOHN H.,
 FULLER, CHARLES D.,
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 GALLATIN, MRS. ALBERT,
 GALLATIN, GOELET,
 GALLATIN, MRS. GOELET,
 GALLAWAY, MERRILL W.,
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 GARRARD, MISS MARGARET H.,
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 GARRETTSON, MISS HELEN JAY,
 GARRISON, C. M.,
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 GAWTRY, LEWIS B.,
 GEDDES, DONALD G.,
 GELLER, MRS. F.,
 *GELSHEHEN, WILLIAM H.,
 GENTHE, ARNOLD,
 GEORGE, G. K.,
 GERRY, PETER G.,
 GERRY, ROBERT L.,
 GERSTENDORFER, ALBERT,
 GIBB, MRS. H. E.,
 GIBBS, GEORGE,
 GIBSON, H. D.,
 GIBSON, W. FRAZER,
 GIESEN, MISS LOUISE MARIE,
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 GLASS, REUBEN E.,
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 GOODWIN, WALTER L.,
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 GOTTHELF, CHARLES,
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 GOTTHOLD, FREDERIC,
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 GROSS, JAMES S.,
 GROSVENOR, MISS ROSA ANNE,
 GRUHL, EDWIN,
 GRUNER, WILLIAM C.,
 *GUERNSEY, HENRY W.,
 GUGGENHEIM, HARRY F.,
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 HAVEN, J. WOODWARD,
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 HAWES, STEPHEN,
 HAWKES, MISS EVA,
 HAY, CLARENCE L.,
 HAYES, HIS EMINENCE, CARDINAL,
 HAYES, DR. WILLIAM VAN VALZAH,
 HAYNES, WILLIAM DEFOREST,
 HAZEN, GEORGE H.,
 HECHT, RUDOLF,
 HECK, GEORGE C.,
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 *HERMAN, MAX,
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 HERNSTADT, WILLIAM L.,
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 HERSHEY, ANDREW H.,
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 HILL, E. B.,
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 HILLS, DR. THOMAS MCD.,
 HILTMAN, J. W.,
 HINCKLEY, MRS. SAMUEL NIELSON,
 HINTON, ALFRED P.,
 HIRSCH, CHARLES S.,
 HIRSCHLAND, FRANZ H.,
 HOCHSCHILD, H. A.,
 HODGES, HARRISON B.,
 HOE, ARTHUR F.,
 HOE, MRS. ROBERT,
 HOFF, L. R.,
 HOFFMAN, F. B.,
 HOFFMAN, MISS M. U.,
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 HOGAN, MRS. JEFFERSON,
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 HOLBROOK, MRS. EDWARD,
 HOLLENBACK, MISS AMELIA B.,
 HOLLINGWORTH, DR. W. G.,
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HOLTER, MRS. E. O.,
 HOLTON, CHARLES W.,
 HOLTON, OLIVER W.,
 HOMES, HENRY F.,
 HOOKER, DR. RANSOM S.,
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 HOOVER, LORING R.,
 HOPPIN, MISS FRANCES,
 HOPPIN, WILLIAM W., JR.,
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 HORR, L. WILLIAM,
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 HOUGHTON, CLEMENT S.,
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 HOWE, MRS. HELEN W.,
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 HOWELLS, MRS. JOHN MEAD,
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 HOYT, ALFRED O.,
 HOYT, GEORGE S.,
 HOYT, GERALD L.,
 HOYT, MRS. HENRY R.,
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 HOYT, JOHN SHERMAN,
 HOYT, MISS VIRGINIA SCOTT,
 HUBBARD, RALPH H.,
 HUDSON, MRS. MARJORIE V. L.,
 HUGHES, CHARLES E., JR.,
 HUGHES, JOHN,
 HUMPHREY, MISS MARTHA K.,
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 HUNTINGTON, FORD,
 HUNTMAN, REV. GERARD H.,
 HUPFEL, J. CHRISTIAN G.,
 HURD, MRS. RICHARD M.,
 HURDMAN, FREDERICK H.,
 HUSSEY, FREDERICK,
 HUTCHINS, AUGUSTUS SCHELL,
 HUTCHINS, HARLEY D.,
 HUTCHINSON, CARY T.,
 HUTTON, E. F.,
 HUYLER, C. D.,
 HUYLER, F. D.,
 HYDE, MRS. AUGUSTUS L.,
 HYDE, B. T. BABBITT,
 HYDE, COURTNEY,
 HYDE, E. FRANCIS,
 HYDE, DR. FREDERICK E.,
 HYDE, SEYMOUR WORRALL,
 ILLINGWORTH, CLARENCE,
 IMBODEN, H. M., M.D.,
 INGALLS, WALTER RENTON,
 INGERSOLL, ERNEST,
 INSLEE, EDWIN W.,

IRONS, HENRY C.,
 IRWIN, WALLACE,
 ISAACS, STANLEY M.,
 ISELIN, MRS. ARTHUR,
 ISELIN, C. OLIVER,
 ISELIN, MISS GEORGINE,
 ISELIN, MRS. LEWIS,
 ISELIN, MISS LOUISE M.,
 ISELIN, WILLIAM E.,
 ISELIN, MRS. WILLIAM E.,
 ISELIN, WILLIAM O'DONNELL,
 ISHAM, WILLIAM B.,
 ISRAEL, LEON,
 IVES, RAYMOND,
 JACKSON, FREDERICK W.,
 JACKSON, MRS. FREDERICK W.,
 JACOBS, SAMUEL KELLER,
 JACOBUS, JOHN S.,
 JACQUELIN, HERBERT T.B.,
 JAECKEL, MRS. H. FRANCIS,
 JAFFRAY, ROBERT,
 JAMES, MRS. ARTHUR CURTISS,
 JAMES, HENRY, JR.,
 JAMES, MRS. WALTER B.,
 JAMES, MRS. WORTHAM,
 JAMESON, MRS. EDWIN C.,
 JARECKI, MRS. F. C.,
 JENKINS, A. W.,
 JENKINS, GUY S.,
 JENKINS, MRS. HELEN H.,
 JENKINS, JOHN C.,
 JENKINS, WILLIAM B.,
 JENKS, ROBERT I.,
 JENNINGS, SIDNEY J.,
 JENNINGS, WALTER,
 JESUP, MRS. JAMES R.,
 JOHN, ROBERT,
 JOHNES, MRS. WILLIAM FOULKE,
 JOHNSON, F. COIT,
 JOHNSON, GILBERT H.,
 JOHNSON, THOMAS W.,
 JOHNSTON, J. HERBERT,
 JOHNSTON, DR. MARIUS E.,
 JONES, MRS. A. MASON,
 JONES, MRS. CADWALADER,
 JONES, MRS. DWIGHT A.,
 JONES, H. BOLTON,
 JONES, H. LEROY,
 JONES, LEWIS Q.,
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 JUDSON, WILLIAM D.,
 KAHN, FELIX E.,
 KAHN, LOUIS,
 KAHN, MRS. OTTO H.,
 KAHN, DR. ROBERT J.,
 KAHN, WALTER N.,
 KANE, MRS. ARTHUR S.,

KANE, MRS. DELANCEY,
 KARCHER, FRANK J.,
 KAREISEN, EPII. A.,
 KATZ, WILLIAM,
 KAUPF, ALBERT,
 KEAN, HAMILTON FISH,
 KEAN, MRS. HAMILTON FISH,
 KEAN, ROBERT WINTHIROP,
 KECK, MISS MARGARET W.,
 KEECH, FRANK B.,
 KEECH, MRS. FRANK B.,
 KEELER, MRS. C. B.,
 KEIL, HENRY F.,
 KELCHNER, WILLIAM W.,
 KELLOGG, JOHN O.,
 KELLY, DR. HOWARD A.,
 KEMPLAND, WILLIAM C., JR.,
 KENNEDY, EDWARD G.,
 KENNEDY, MRS. H. VAN RENSSELAER,
 KENNEDY, HENRY W.,
 KENNEDY, MRS. JOHN STEWART,
 KENNERLY, MISS M. M.,
 KENT, EDWIN C.,
 KEPHART, REV. WILLIAM H.,
 KEPPEL, DAVID,
 KETCHAM, EDWARD C.,
 KETCHAM, IRVING M.,
 KEUFFEL, W. G.,
 KEYES, MRS. CHARLES W.,
 *KEYSER, MRS. SAMUEL,
 KIEGER, EMIL L.,
 KIERNAN, PETER D.,
 KILBRETH, JAMES T.,
 KILMARX, LOUIS E.,
 KIMBALL, LEROY E.,
 KING, MRS. AUGUSTUS F.,
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 KING, MRS. LEROY,
 KINGSFORD, IRVING B.,
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 KINNEY, MRS. WARREN,
 KIP, W. RULOFF,
 KIRK, LOUIS E.,
 KIRKHAM, WILLIAM B.,
 KIRKMAN, SIDNEY A.,
 KISSEL, MRS. W. THORN,
 KITCHEL, ALLAN F.,
 KITTREDGE, SAMUEL DANA,
 KITZ, JOSEPH,
 KLAU, MARC,
 KLEIN, D. EMIL,
 KLEIN, MILTON M.,

- KLINGENSTEIN, CHARLES,
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 KNAPP, ARNOLD,
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 KNIGHT, CHARLES R.,
 KNOEDLER, ROLAND F.,
 KNOLLENBERG, BERNHARD,
 KNOWLTON, EVAN B.,
 KNOWLTON, HUGH,
 KOHL, EDWIN PHILLIPS,
 KOLB, FRED.,
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 KRECH, MRS. ALVIN W.,
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 KUHN, MISS BRENDA,
 KUHN, FRANK,
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 KUMPF, GEORGE L.,
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 LAWRENCE, W. V.,
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 *LEDoux, DR. ALBERT R.,
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 LEWISOHN, ADOLPH,
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 LICHTENSTEIN, OSCAR R.,
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 LIEB, J. W.,
 LINCOLN, FREDERIC W.,
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 LISSBERGER, MILTON I.,
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 LITTAUER, SIEGFRIED,
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 LOW, SETH,
 LOW, WILLIAM GILMAN, JR.,
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CHARTER
OF THE
New York Zoological Society

CHAPTER 435, LAWS OF 1895.

AN ACT to incorporate the New York Zoological Society and to provide for the establishment of a zoological garden in the city of New York.

As amended by Chapter 146 of the Laws of 1902; and by Chapter 240 of the Laws of 1910.

See Chapter 432 of the Laws of 1900.

See Chapter of the city of New York, Section 626 of the Laws of 1901.

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

SECTION 1. Charles A. Dana, Oswald Ottendorfer, Andrew H. Green, William H. Webb, Henry H. Cook, Samuel D. Babcock, Charles R. Miller, George G. Haven, J. Hampden Robb, Frederick W. DeVoe, J. Seaver Page, Rush C. Hawkins, David James King, Wager Swayne, Charles A. Peabody, Jr., Charles E. Whitehead, Charles R. Flint, Samuel Parsons, Jr., Mornay Williams, Henry E. Gregory, Isaac W. Maclay, Isaac Rosenwald, Hugh N. Camp, Andrew D. Parker, Cornelius Van Cott, William F. Havemeyer, Frederick Shonnard, William W. Thompson, Alexander Hadden, Edward L. Owen, John H. Starin, Rush S. Huidekoper, William W. Goodrich, Albert H. Gallatin, Frederick S. Church, Edward C. Spitzka, Robert L. Niles, Madison Grant, C. Grant La Farge, William Van Valkenburg, and such other persons as may, under the provisions of its by-laws, become members of the corporation hereby created, are hereby created a body corporate and politic, by and under the name of New York Zoological Society.

SEC. 2. Said corporation shall have power to establish, maintain and control zoological parks, gardens, or other collections for the promotion of zoology and kindred subjects, and for the instruction and recreation of the people. Said corporation may collect, hold, and expend funds for zoological research and publication, for the protection of wild animal life, and for kindred purposes, and may promote, form, and co-operate with other associations with similar purposes, and may purchase, sell, or exchange animals, plants, and specimens appropriate to the objects for which it was created.

SEC. 3. The managers of said corporation shall have power to make and adopt by-laws for the management and government of its affairs and business, for the admission, suspension, and expulsion of its members, and for the terms and conditions of membership; to prescribe the number and mode of election of its officers; to define their duties; to provide for the safe-keeping of its property, and from time to time to alter and modify its By-laws.

SEC. 4. The affairs and business of said corporation shall be managed and controlled by a board of managers, the number of whom shall be prescribed by the by-laws. The first board of managers shall be divided by lot into three classes, equal in number, one of which classes shall hold office for one year, another for two years, and the other for three years; and all persons elected to be managers at any subsequent election shall hold office for three years, and until others are elected in their stead. There shall be a president, two vice-presidents, treasurer and secretary, to be elected by the board of managers annually, who shall hold office until others are elected in their stead. The first meeting under this act may be held at any time upon a notice of five days, signed by any five of the incorporators named in the first section of this act, fixing a time and place for such meeting, a copy whereof shall be mailed to each of said incorporators at his usual post-office address, and twelve of such incorporators shall be a quorum for the purpose of organization, adoption of by-laws, and election of officers. No manager of said corporation shall be interested, directly or indirectly, in any contract concerning its property or affairs.

SEC. 5. Said corporation may raise money by the issue of bonds, secured by a mortgage on any or all of its property not acquired from said city or state.

SEC. 6. Said corporation may take, purchase, and hold real and personal estate necessary for the purpose of its incorporation, and shall possess the general powers and be subject to the restrictions and liabilities prescribed in Article II of Chapter 23 of the Consolidated Laws, entitled "General Corporation Law," being chapter 28 of the Laws of 1909.

SEC. 7. The commissioners of the sinking fund of the said city are authorized in their discretion to allot, set apart, and appropriate for the use of said corporation, any of the lands belonging to said city north of One Hundred and Fifty-fifth Street, but not in the Central Park, and such appropriation may be revoked if, after the expiration of five years from the passage of the act, a zoological garden is not established thereon; said grounds thus set apart and appropriated shall be used or no purpose whatsoever except those aforesaid. As soon as any lands are set apart the Mayor of the said city of New York, and the President of the Department of Parks of said city, shall become and be *ex-officio* members of the board of managers of said corporation. If at any time the animals now composing the menagerie of Central Park shall be removed therefrom by the authorities having charge thereof, said authorities may make an arrangement with the incorporators named in this act or the corporation formed by them for leasing or sale of such animals to such incorporators or corporation, and said incorporators or corporation shall have a preference over any other person or corporation in respect thereto upon the same terms which said authorities could make with any such other person or corporation, or upon such other terms as to such authorities may seem proper, but nothing herein provided shall be construed as giving the commissioners of the Department of Public Parks authority to sell, lease, transfer, or in any other wise dispose of said animals or other property connected with or belonging to said menagerie.

SEC. 8. Admission to the said gardens shall be free to the public for at least four days, one of which shall be Sunday, in each week, subject to such rules and regulations as shall be prescribed by said corporation.

SEC. 9. This act shall take effect immediately.

AN ACT to amend chapter four hundred and thirty-five of the laws of eighteen hundred and ninety-five, entitled "An act to incorporate the New York Zoological Society and to provide for the establishment of a zoological garden in the City of New York" in relation to real and other property.

Became a law May 26, 1917, with the approval of the Governor. Passed, three-fifths being present.

ACCEPTED BY THE CITY.

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

SECTION 1. Chapter four hundred and thirty-five of the laws of eighteen hundred and ninety-five, entitled "An act to incorporate the New York Zoological Society and to provide for the establishment of a zoological garden in the City of New York," as amended by chapter two hundred and forty of the laws of nineteen hundred and ten, is hereby further amended by adding thereto a new section to read as follows:

7-a. The board of estimate and apportionment in the City of New York may, in its discretion, set apart and appropriate upon such conditions as it may deem expedient for the extension and development of the work and objects of the said New York Zoological Society, the whole or any part of that portion of Bronx Park in the City of New York, lying to the south of Pelham avenue and Pelham parkway, for the use of the said New York Zoological Society, the said lands so to be appropriated to be described particularly in the order of the board of estimate and apportionment hereby authorized. The said board of estimate and apportionment may also, in its discretion at the time of setting apart and appropriating said lands or any part thereof to the New York Zoological Society, and annually thereafter, in addition to any sum or sums which it may have appropriated for the support and maintenance of the New York Zoological Park, appropriate to the use of said society, such sum or sums in its discretion for the care and maintenance of the additional lands that may be allotted to the said society under the authority hereby conferred, as it may deem best.

2. This act shall take effect immediately.

New York Zoological Society

AND THE

New York Aquarium

CHAPTER 441, LAWS OF 1902.

AN ACT to authorize a further appropriation to the New York Zoological Society for the support of the New York Aquarium.

As amended by Chapter 239 of the Laws of 1910.

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

Chapter four hundred and forty-one of the laws of nineteen hundred and two, entitled "An Act to authorize a further appropriation to the New York Zoological Society for the support of the New York Aquarium," is hereby amended to read as follows:

SECTION 1. The Board of Estimate and Apportionment of the City of New York may annually, in its discretion include in the budget for the then next ensuing financial year, in addition to any sum or sums which may be appropriated for the adequate support and maintenance of the New York Zoological Park or gardens, situated in the borough of the Bronx, and administered and controlled by the New York Zoological Society, a further sum or sums, in its discretion, for the use of the said New York Zoological Society, provided, however, that the additional appropriation hereby authorized shall be made only in case an agreement is entered into between the said New York Zoological Society and the City of New York, acting by its Board of Estimate and Apportionment for the adequate keeping, maintenance, extension, preservation and exhibition of the building and approaches thereto and collection of aquatic animals and plants contained therein, known as the New York Aquarium, situated in the Battery Park in the Borough of Manhattan in said city, and also for furnishing opportunities for study, research and publication in connection with said collections, which contract the said Board of Estimate and Apportionment is hereby expressly authorized, in its discretion, to make upon such terms and conditions as may be agreed upon with the said New York Zoological Society, and which contract shall also provide how the duty of the commissioner of parks for the borough of Manhattan and Richmond in respect to maintaining the said aquarium now imposed upon him by law shall be performed.

Sec. 2. This act shall take effect immediately.

GRANT OF SOUTH BRONX PARK

TO THE

New York Zoological Society

At a special meeting of the Commissioners of the Sinking Fund, City of New York, held on March 24, 1897, a resolution was passed allotting South Bronx Park for the use of the New York Zoological Society upon conditions entirely satisfactory to the Society.

The full text of the resolution is as follows:

WHEREAS, by chapter 435 of the Laws of 1895, entitled "An act to incorporate the New York Zoological Society and to provide for the establishment of a Zoological Garden in the City of New York," it is provided that the Commissioners of the Sinking Fund of the City of New York are authorized in their discretion to allot, set apart and appropriate, for the use of said corporation, any of the lands belonging to said city north of 155th Street, but not in Central Park,

RESOLVED, that the said Commissioners of the Sinking Fund do hereby allot, set apart and appropriate for the use of said corporation, a tract of land in the southern portion of Bronx Park, embracing an area of about 261 acres, and consisting of so much of said park as lies south of Pelham Avenue, upon the following terms and conditions, to wit:

First. That said grounds thus set apart and appropriated, shall be used for no other purpose whatsoever except for the purposes of said Zoological Garden as the same are specified in the act aforesaid, and that said appropriation of said lands hereby made shall be revoked if, after the expiration of three years from the date of the commencement of the work by the Park Department for the necessary improvement of the grounds as referred to and described in the sixth paragraph of this Resolution, a Zoological Garden is not established upon said tract of land.

Second. That the original equipment of buildings and animals for said Zoological Garden shall be paid for from funds contributed by the New York Zoological Society, and that said Society shall, before it enters into occupation of the allotted land and within one year from the date of this Resolution, raise one hundred thousand dollars by subscription, and within three years from the date of the commencement of the work by the Park Department for the necessary improvement of the grounds as referred to and described in the sixth paragraph of this Resolution, the further sum of at least one hundred and fifty thousand dollars. If the said Society shall fail or neglect to raise said funds within the periods respectively fixed therefor, it shall, on demand of the Commissioners of the Sinking Fund, surrender to the City of New York the land allotted to it as

a site for said Garden, and all improvements made thereon. The said Society shall not mortgage its buildings or animals, or any of its property within said Garden, which is directly or indirectly maintained by the City of New York.

Third. The said Zoological Society shall have the power to establish an endowment fund from the donations and bequests, which fund shall be used solely, unless otherwise specified by the donors thereof, for the general uses and purposes of said Society. The funds of said Society, other than the sums contributed to said endowment fund, shall be expended upon buildings and other enclosures for animals, for the collections of animals, and for the general purposes of the Society. Among the funds thus to be expended shall be the subscriptions of members, life members and patrons, and all cash donations to said Society, other than those made for the purposes of the endowment fund, and all moneys derived from the sale of animals; and the net proceeds of the privileges that may be developed in said Garden, such as refreshments, boating, riding animals, the sale of photographs, etc., shall be used for, and expended in the increase of the collections; and payments from the funds of such Society, including the endowment fund, shall be made directly from the treasury of the Society.

Fourth. The library, pictures, maps, office furniture, and other movable property purchased and owned by the Society shall remain the property of the Society, and excepting living animals, may be removable at will, and every piece of such property shall bear a distinguishing mark. But no buildings, aviaries or cages may be sold or removed by said Society without the written consent of the Board of Parks. All property paid for from the maintenance fund, hereinafter referred to, shall belong to the City.

Fifth. So long as the said Society is entrusted with the control and management of the said Zoological Garden, and the city provides for the proper maintenance and care of the animals and collections therein, the said Society shall not remove any of its animals or collections for exhibition elsewhere without the consent of the Board of Parks, but if the City shall ever cease to provide for the proper maintenance and care of the said animals and collections, the said Zoological Society shall have the right, upon giving three months' notice in writing to the Board of Parks, to remove the said animals and collections owned by it. The said Society shall have the right to improve its collections by the exchange of animals, and also by the sale of animals not needed for exhibition; but all moneys derived from such sale or exchange of animals shall be used only for the purpose of increasing said collections.

Sixth. The City of New York shall annually provide the necessary funds for the maintenance and care of the Zoological Garden, its buildings, inclosures and other improvements made from time to time therein, and the animals and collections of said Society; but the appropriation for the first year is not to exceed Sixty thousand dollars (\$60,000). It shall be the duty of the City to provide from such sums or appropriations, as may be applicable thereto, the cost of the necessary improvement of the ground prior to the erection of buildings and inclosures, including such roads, walks, fences, grading, water supply, drainage and heating as may be or become necessary for the proper development of said Zoological Garden, all of which work of preparation and construction shall be performed in conformity with the plans therefor to be agreed upon between the Park Department and the Zoological Society. The said City shall also furnish the necessary supply of water, and adequate police patrol and protection, and the salaries of all persons employed directly in the service and development of the Zoological Garden shall be paid from the maintenance fund, and from such other funds as may be available for and applicable to the purpose. Payments from the maintenance fund shall be made upon vouchers filed with the Comptroller and drawn in such form as he may direct; and said Society shall annually render

the year then past, made on account of the said Zoological Garden, all revenues and resources thereof, a statement of the number of the members of said Society, of the donations received and of the number of animals in the Garden, the chief items of improvement made during the year, and all other information that the said Mayor may require.

Seventh. The Park Department shall at all times have access to the grounds, buildings and other inclosures of the said Zoological Society for general police visitation and supervision, and for all other lawful purposes. Prior to the commencement of any work on said Garden the general plan therefor shall be submitted to and approved by the Park Board, and all subsequent plans for buildings, roadways and paths shall also be so submitted and approved. No living tree shall be cut down or removed, except by the express authority of said Park Department, but the said Zoological Society shall have the right to remove dead trees and such bushes as it may be necessary to remove in the preparation of inclosures for animals, or in making other improvements. The said Department of Parks shall plant such and so many shade trees, aquatic plants, shrubs and flowers as may be necessary to enhance and secure the seclusion, beauty and usefulness of the park, and shall do and perform all the work of gardening necessary to carry out the general plan of improvement and the subsequent plans as may be agreed upon between the said Zoological Society and the said Department of Parks.

Eighth. The said Zoological Garden and its collections shall be free to the public without the payment of any admission fee or gratuity whatsoever for not less than seven hours a day on at least five days of the week, one of which shall be Sunday, and also on all legal holidays and half holidays, subject to such reasonable regulations as may be made by said Society, but the said Society may close the area devoted to the collections of animals on not more than two days in each week, and on such days may charge an admission fee which shall be fixed by said Society, and all moneys derived from such admission fees shall be expended by said Society in the increase of the collections or in the improvement of said Garden or its buildings; but the portion of the grounds situated east of Boston Road, and all the Bronx River below the Boston Road bridge shall be open to the public at all times as pleasure grounds, subject to such reasonable regulations as may be adopted by said Society with the approval of the Park Department, and the occupancy of that portion of the park by herds of animals or by collections, shall be subject to the consent of the Park Department.

Ninth. The said Zoological Society shall have the right and power to appoint, direct, control and remove all persons and officers employed by them in and about the Zoological Gardens, and to fix the salaries of such persons and officers and to make promotions, but all regular employees shall be chosen, and their salaries fixed and promotions made, by reason of special fitness and ability.

Tenth. Subject to the conditions hereinbefore contained, the said Zoological Society shall exercise entire control and management over all the affairs of the said Zoological Garden.

BY-LAWS
OF THE
New York Zoological Society

AS AMENDED ON JANUARY 20, 1925.

ARTICLE I.

MEETINGS OF THE SOCIETY

SECTION 1. The office and place of business of the New York Zoological Society shall be in the City of New York, unless otherwise ordered.

SEC. 2. The Society shall hold its annual meeting for the election of Managers, and other business, on the second Tuesday of January, or such day thereafter during the month of January to which said annual meeting shall adjourn.

SEC. 3. Special meetings of the Society shall be called by the Secretary, upon the request of the President or the Chairman of the Executive Committee, or at the written request of ten members.

SEC. 4. Notices of all meetings shall be mailed to each member of the Society at least three days before such meeting.

SEC. 5. At meetings of the Society twenty members shall constitute a quorum.

SEC. 6. The order of business shall be as follows:

1. Roll Call.
2. Reading of minutes not previously read.
3. Report of Executive Committee.
4. Report of Secretary.
5. Report of Treasurer.
6. Report of the Director of the Zoological Park.
7. Report of Director of the Aquarium.
8. Election of Managers.
9. Communications.
10. Miscellaneous business.
11. Reports and resolutions.

ARTICLE II.

BOARD OF MANAGERS

SEC. 1. The Board of Managers shall consist of thirty-six members, together with the Mayor of New York and President of the Park Board, or Commissioner for the Bronx, who shall be members *ex-officio* of the Board.

SEC. 2. Nineteen Managers shall constitute a quorum, but ten Managers may transact current business, and adjourn, subject to the subsequent approval of a meeting at which a quorum shall be present.

SEC. 3. The Board of Managers shall hold an annual meeting on the third Tuesday of January, or on such day thereafter to which said annual meeting shall adjourn. Regular meetings of the Board may also be called by the Secretary on the third Tuesdays of October and April upon the request of the President or Chairman of the Executive Committee. Special meetings of the Board shall be called at any time by the Secretary upon the request of the President or Chairman of the Executive Committee, or at the written request of five managers.

SEC. 4. Notices of meetings of the board shall be mailed to each Manager at least three days before such meetings.

SEC. 5. The successors to the outgoing class of Managers shall be elected by the Society at its annual meeting, but vacancies in the board may be filled for the unexpired term by the Board of Managers, or by the Executive Committee.

SEC. 6. A Nominating Committee shall be annually appointed by the Executive Committee, and shall consist of three members of the Society at large, who shall nominate and post ten days before the annual election the names of twelve persons to succeed the outgoing class of Managers in a conspicuous place in the office of the Society.

SEC. 7. No person shall be eligible for the election of the Board of Managers except to fill vacancies, unless his name shall have been posted as a candidate by such committee, or by not less than ten members, in writing, in a conspicuous place in the office of the Society ten days before the annual election. All candidates for election as Managers must be Life Members, Patrons, Associate Founders, or Founders of the Society.

SEC. 8. Any Manager who shall fail to attend three consecutive meetings of the Board, unless excused by a vote of the Board, shall cease to be a Manager.

SEC. 9. The Board of Managers shall at its annual meeting elect a President, two Vice-Presidents, a Secretary, and Treasurer, who shall hold office for one year, or until their successors are elected. The President, Vice-Presidents, and Treasurer shall be members of the Board.

SEC. 10. The Director of the Zoological Park, the Director of the Aquarium, and all other persons employed by the Society, shall be appointed by the Board or by the Executive Committee, and shall hold office during the pleasure of the Board.

SEC. 11. The Board shall, at its annual meeting, elect an Executive Committee and Auditing Committee, which shall hold office for one year, or until their successors are elected. The Board of Managers and the Executive Committee shall also have authority to appoint such other Committees or officers as they may at any time deem advisable and to delegate to them such powers as may be necessary.

SEC. 12. The order of business of the meetings of the Board shall be as follows:

1. Roll Call.
2. Reading of minutes not previously read.
3. Report of Executive Committee.
4. Report of Secretary.
5. Report of Treasurer.

6. Report of Auditing Committee.
7. Report of Director of Zoological Park.
8. Report of the Director of the Aquarium.
9. Election of Officers.
10. Election of Committees.
11. Election of new members.
12. Communications.
13. Miscellaneous business.

SEC. 13. All reports and resolutions shall be in writing, and the ayes and nays may be called on any resolution at the request of one Manager.

SEC. 14. Whenever the funds of the Society shall permit, the Board of Managers or the Executive Committee may award medals or other prizes for meritorious work connected with the objects of the Society.

ARTICLE III.

OFFICERS

SEC. 1. The officers of the Society shall consist of a President, two Vice-Presidents, a Treasurer, a Secretary, and a Director of the Zoological Park. These officers, with the exception of the Director, shall be elected at the annual meeting of the Board of Managers, but any vacancy may be filled for an unexpired term by the Board of Managers, or by the Executive Committee, until the next annual election.

SEC. 2. The President shall preside at all meetings of the Board and of the Society, and shall be *ex-officio* a member of the Executive and Auditing Committees.

SEC. 3. The Vice-Presidents shall, in the absence of the President, perform his duties and possess his powers, acting in the order of their election.

SEC. 4. The Treasurer shall receive, collect and hold, subject to the order of the Board of Managers, or the Executive Committee, all dues, subscriptions, warrants from the City, fees and securities. He shall pay all bills as ordered by the Board of Managers or the Executive Committee, and shall report to the Society at its annual meeting, and to the Board of Managers at all regular meetings, and to the Executive Committee at each meeting. He shall keep all moneys and securities in some bank or trust company to be approved by the Board of Managers or Executive Committee. The books of the Society shall at all times be open to the inspection of the Managers.

SEC. 5. The Secretary, unless relieved by the Board or Executive Committee, shall attend all meetings of the Society, of the Board and of the Standing Committees. He shall keep a careful record of all proceedings, shall have the custody of the seal, archives and books, other than books of account, and shall conduct the correspondence of the Society. He shall issue all notices and tickets, and shall perform such other duties as the Board may direct. He shall be a member *ex-officio* of the Executive, Aquarium, and Auditing Committees, and of the Scientific Council.

SEC. 6. The Director of the Zoological Park shall be elected annually by the Executive Committee at a salary to be determined by said Committee, and shall hold office until removed or his successor chosen by said Committee. He shall be the responsible administrative officer of the Park, and shall recommend to the Executive Committee candidates for the various positions in the Park. He shall also perform all such other duties in connection with the business, scientific,

and literary administration of the Society as may be assigned to him by the Executive Committee.

SEC. 7. The Director of the Aquarium shall be elected annually by the Executive Committee, and shall hold office until removed or his successor is chosen by said Committee. He shall be the responsible administrative officer of the Aquarium, and shall recommend to the Executive Committee all candidates for positions in the Aquarium. The director of the Aquarium shall be *ex-officio* a member and Chairman of the Aquarium Committee. He shall perform such other duties in connection with the Aquarium as may be assigned to him by the Executive Committee.

ARTICLE IV.

COMMITTEES

SEC. 1. There shall be two standing committees, the Executive Committee and the Auditing Committee, which shall hold office for one year or until their successors are elected.

SEC. 2. The Executive Committee shall consist of eight Managers, together with the President, Secretary and Treasurer of the Society *ex-officio*. Four members including the Chairman shall constitute a quorum, and all meetings shall be called by the Chairman. The Executive Committee shall fill all vacancies in its own number and shall have the full power of the Board of Managers, except so far as such delegation of power may be contrary to law.

SEC. 3. The Executive Committee shall have the control and regulation of the collections, library and all other property of the Society, and shall have the power to purchase, sell and exchange specimens and books.

The Executive Committee shall also have power to employ and control all officials and employees of the Society, Park and Aquarium, to authorize the payment of a salary to the Chairman of the Executive Committee, the Secretary and other officials in its discretion, to fix the amount of all salaries, and generally to carry out in detail the directions of the Board of Managers and the terms of any contract between the City, or Park Board, and the Society.

SEC. 4. All the rules and regulations for the examination of applicants for the various positions in the Park and Aquarium shall be made or approved by the Executive Committee.

SEC. 5. The Executive Committee may regulate the auditing and payment for all current accounts.

SEC. 6. The Executive Committee shall annually appoint an Aquarium Committee, whose duties and powers are set forth in Section II of Article IV of these By-Laws.

SEC. 7. The Executive Committee shall annually appoint a Nominating Committee, whose duties and powers are set forth in Sections 6 and 7, Article II, of these By-Laws.

SEC. 8. It shall also appoint a Scientific Council, whose powers and duties are set forth in Section 2 of Article V of these By-Laws.

SEC. 9. The Committee shall make a written report at each regular meeting of the Board of Managers.

SEC. 10. The Auditing Committee shall consist of three regular members of the Society, in addition to the President and Secretary, members *ex-officio*, and vacancies shall be filled by the Executive Committee. It shall be the duty of

the Auditing Committee to audit, annually, the accounts of the Treasurer, of the Director of the Zoological Park, and of the Director of the Aquarium, and any other accounts of the Society, and shall report to the Board of Managers at its annual meeting.

SEC. 11. The Executive Committee shall annually appoint an Aquarium Committee, not to exceed eight members of this Society, who shall hold office until their successors are chosen. All vacancies shall be filled by the Executive Committee. The Director of the Aquarium shall be *ex-officio* a member and the Chairman of the Aquarium Committee, and such Committee may vest in him any or all of its powers. The Chairman of the Executive Committee and the Secretary of the Society shall also be *ex-officio* members of the Aquarium Committee. Three members shall constitute a quorum. The Executive Committee may delegate to the Aquarium Committee such powers as it may deem proper.

ARTICLE V.

SCIENTIFIC COUNCIL

SEC. 1. The Executive Committee shall annually appoint a Scientific Council of not more than ten members, and shall fill all vacancies. Members of the Council shall hold office until their successors are appointed.

SEC. 2. The duties of the Council shall be to act as an advisory board in all matters pertaining to the scientific administration of the Society, and especially as to the scientific features of the Park, the promotion of zoology by publications and otherwise, and the preservation of the native fauna of America.

SEC. 3. Four members, including the Chairman, shall constitute a quorum. The Chairman shall be elected annually by the Council. The Chairman of the Executive Committee and the Secretary of the Society shall be members *ex-officio* of the Council.

ARTICLE VI.

MEMBERS

SEC. 1. The present members and such others as shall become associated with them, under the conditions prescribed by the By-Laws, shall be members of this Society as long as they shall comply with the By-Laws.

SEC. 2. Members failing to comply with these By-Laws, or for other good and sufficient cause, may be expelled from the Society by the Executive Committee.

SEC. 3. Candidates for membership shall be proposed and seconded by members of the Society. The name, occupation, and place of residence of every member as proposed shall be submitted for election to the Board of Managers or the Executive Committee, and such person, when elected, shall become a member upon payment of the annual dues, or of the fees as prescribed below.

SEC. 4. There shall be a class known as Fellows, which shall consist of members of the Society who have rendered marked services to science, and shall be chosen by the Executive Committee. The privileges of Fellows shall be in all respects the same as those of regular members of the Society, but they shall be exempt from the payment of annual dues.

SEC. 5. The annual dues shall be ten dollars, payable in advance, on the first day of May of each year, but the Executive Committee may remit the dues

for the current year in the case of members elected between January 1st and May 1st of each year. The classes of membership shall be as follows:

SEC. 6. The payment of \$200 at one time shall constitute any member a Life Member.

A member who has paid annual dues for a period of five years may thereafter, at any time, upon the payment of the difference between the amount of dues already paid and \$200, become a Life Member, but such payment shall be not less than \$100.

SEC. 7. The payment of \$1,000 at one time, or in the case of a Life Member, of \$800, shall constitute any member a Patron.

SEC. 8. The payment of \$2,500 at one time, or in the case of a Patron of \$1,500, or of a Life Member of \$2,300, shall constitute any member an Associate Founder.

SEC. 9. Any member who shall donate to the Society \$5,000, or property of equal value, or any Associate Founder who shall donate \$2,500, or any Patron who shall donate \$4,000, may be elected by the Board of Managers or Executive Committee a Founder.

SEC. 10. Any member who shall have donated to the Society ten thousand dollars (\$10,000), or its equivalent, may be elected by the Board of Managers or the Executive Committee a Founder in Perpetuity. Such Founder in Perpetuity shall have the power to designate by a last will and testament his successor, who shall thereupon be entitled to all the rights and privileges of the original Founder in Perpetuity, including the right of designating in turn his successor.

SEC. 11. Any member who shall have donated to the Society \$25,000, or its equivalent, may be elected by the Board of Managers, or the Executive Committee, a Benefactor. Benefactors shall have the rights and privileges of a Founder in Perpetuity.

SEC. 12. Persons who have rendered marked service in the science of zoology or natural history may be elected Honorary Members, but not more than three such Honorary Members shall be elected in any one calendar year.

SEC. 13. A resident member who shall have rendered marked scientific or professional services to the Society in any branch of its work may be elected by the Executive Committee a Life Member, Patron, Associate Founder, or Founder. A resident of New York who shall have rendered marked service in zoology or natural history may be elected by the Executive Committee a Permanent Fellow.

SEC. 14. Non-residents who communicate valuable information to the Society, or who have rendered marked service in the science of zoology or natural history, may be elected Corresponding Members.

SEC. 15. Benefactors, Founders in Perpetuity, Founders, Associate Founders, Patrons, Life Members, Honorary Members, Permanent Fellows, Fellows, and Corresponding Members shall be exempt from annual dues.

ARTICLE VII.

PRIVILEGES OF MEMBERS

SEC. 1. A member's ticket admits the member and his immediate family to the Park on reserve days, and to all lectures and special exhibitions, and may be used by the member's immediate family, and shall be good for the current year.

SEC. 2. Admission tickets to the Park and Aquarium on reserve days are issued to members for distribution, and are good for the current year.

SEC. 3. Each member of the Society is entitled annually to a member's ticket and to ten admission tickets.

SEC. 4. Each member shall also receive one copy of the catalogue or handbook, the report and official publication of the Society, and shall have all the privileges of the Library and Members' Building.

SEC. 5. No member shall be entitled to the privileges enumerated in this Article unless his annual dues shall have been paid.

SEC. 6. The Life Members shall have all the privileges of members and ten additional admission tickets.

SEC. 7. Benefactors, Founders in Perpetuity, Founders, Associate Founders and Patrons shall have all the privileges of Life Members, and shall in addition receive copies of all scientific works published by the Society.

SEC. 8. Any member who shall fail to pay his annual dues within three months after the same shall have become due, and after notice of thirty days, by mail, shall cease to be a member of the Society; subject, however, to reinstatement by the Board of Managers or Executive Committee for good cause shown.

SEC. 9. Any person elected to membership who shall fail to qualify within three months after notice of his election shall be considered to have declined his election; but such term may be extended by the Board of Managers, or Executive Committee.

ARTICLE VIII.

FINANCES

SEC. 1. The fiscal year of the corporation shall be the calendar year commencing January 1st and ending December 31st.

SEC. 2. Neither the Society nor any of its Managers or Officers shall contract any debt which, with existing debts, shall exceed in amount the funds then in the Treasury, except to meet expenditures for which the City is liable, and for which the Society will be reimbursed by warrants from the Comptroller's office.

ARTICLE IX.

AMENDMENTS

SEC. 1. Amendments to these By-Laws may be proposed, in writing, at any meeting of the Board of Managers, and adopted by unanimous consent of the Managers present, or if such proposed amendment shall fail to receive unanimous consent, the Secretary shall, with the notices of the next meeting, send a copy of it to each Manager and state that it will be brought up for action at such meeting, when it may be passed by a majority vote.

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Formicidae of the Galapagos (<i>Wheeler</i>).....	
Triungulin Larvae of the Galapagos (<i>Brues</i>).....	
Chilopods of the Galapagos (<i>Chamberlin</i>)	
Coccidae of the Galapagos (<i>Morrison</i>).....	
Galapagos Brachyuran Crabs (<i>Rathbun</i>)	
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Index

Accessions,
 Aquarium, 130
 Park, 121
 Acknowledgments, 31
 Aquarium,
 alterations, 25
 collecting boat, 75
 collections, 25, 74
 Attendance,
 Aquarium, 24, 81
 Park, 24, 38
 Auditing, 116
 Beebe, William, 26
 Bequest,
 Form of, IX
 Blair, W. Reid, 50
 Boating, 59
 Census,
 birds, 46
 Park collection, 50
 Park mammals, 43
 reptiles, 49
 Collections,
 Zoological Park, 24, 39
 Committees,
 Society, XIII
 Costain, E. H., 62
 Crandall, L. S., 48
 Cross, W. Redmond, XI
 Department,
 administration, 54
 birds, 43
 forestry and construction, 62
 mammals, 39
 photography and publication, 67
 reptiles, 47
 Ditmars, Raymond L., 47
 Dodge, Cleveland H., XI
 duPont, Gen. T. Coleman, XI
 Executive Committee, XII
 report of, 17
 Finances, 97
 Gate receipts, 61
 Grant, Madison, XII, 17
 Guide Book, 61
 Hamilton, William Pierson, XI
 Heads and Horns Museum, 129
 Hornaday, W. T., 37
 Ladies' Auxiliary, 33
 Maintenance,
 Aquarium, 26, 111
 Park, 26, 99

Managers, board of, XI
 annual dinner, 29
 spring meeting, 28
 Medical Department, 27
 Meetings,
 memorandum of, 29
 Members of Society, IX, 135
 Membership,
 summary of, 134
 Merkel, H. W., 62, 94
 Mills, Ogden, XI
 Mitchell, H. Raymond, 54
 Mitchell, W. I., 54
 Motor chairs, 62
 Newman, Anna, 67
 Niles, William White, XI
 Officers,
 Aquarium, XV
 Park, XV
 Society, XII
 Osborn, Henry Fairfield, XII
 Pension Board, 93, 103
 Pheasant monograph, 26, 93
 Pratt, Hon. George D., XII
 Privileges, 65
 Pyne, Percy R., XI
 Reception, 28
 Report, audit committee, 116, 123
 audit company's, 30, 116
 director, Aquarium, 73
 director, Park, 37
 executive committee, 17
 Ladies' Auxiliary, 33
 pension board, 93
 treasurer's, 99
 tropical research station, 87
 veterinarian, 50
 Restaurant, Boat House, 60
 Rocking Stone, 59
 Riding animals, 57
 Sanborn, E. R., 67
 Schiff, Mortimer L., XI
 Soda Water, 60
 Souvenir books, 61
 Stewart, Lisperard, XI
 TeeVan, John, 87
 Thorne, Edwin, XI
 Townsend, Charles Haskins, 73
 Tropical research station, 26

X
2
8
11

X
11

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16
16
11

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11

11
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11

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